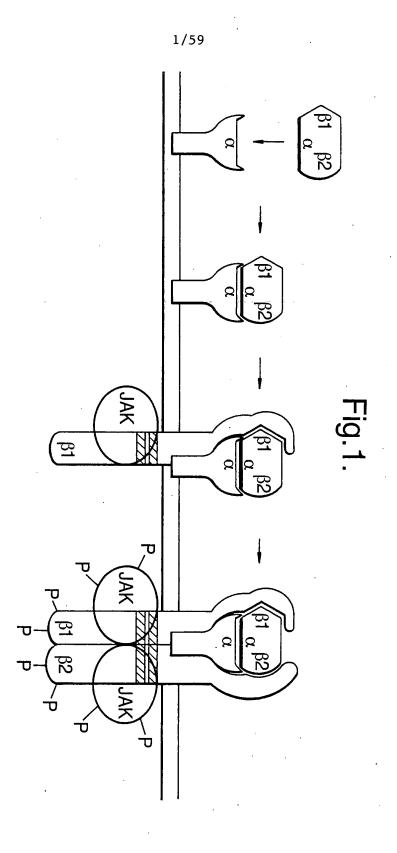
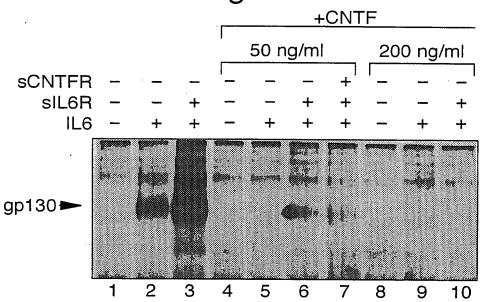
Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING AND VSING Inventor: STAHL, et al. Docket No.: REG 203-A

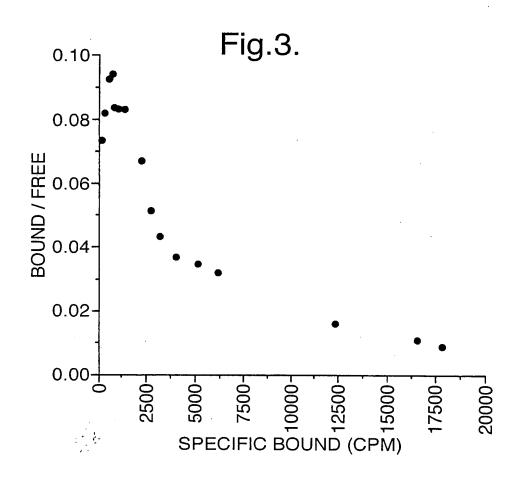


AND METHODS OF MAKING AND USING

Inventor: STAHL, et al. Docket No.: REG 203-A

Fig.2.





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Fig. 4A

Amino acid sequence of human gp130-Fc-His6

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Fig. 4B

NGKEYKCKVSNKALPAPIEK TISKAKGOPREPOVYTLPPS RDELTKNOVSLTCLVKGFYP

790 800 810 820 830 840

* SDIAVEWESNGOPENNYKTT PPVLDSDGSFFLYSKLTVDK SRWOOGNVFSCSVMHEALHN

850 860

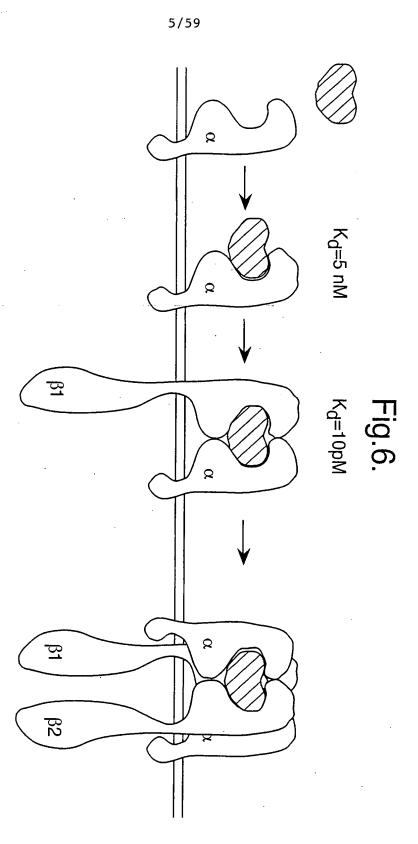
* HYTOKSLSLSPGKHHHHHHH

Fig.5.

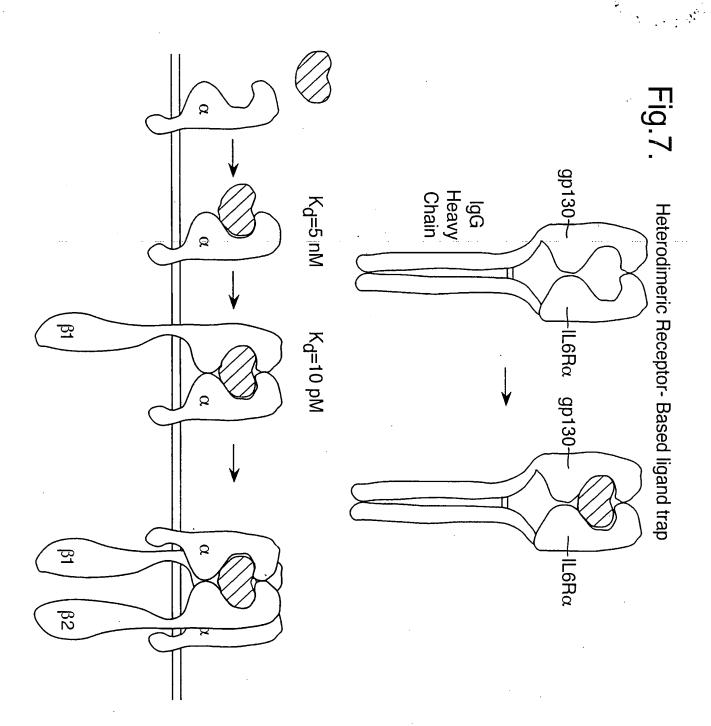
The amino acid sequence of human IL-6Rα-Fc

The animo a	acid sequence of nume	III IL-ORO-PC
Sequence Range: 1 to	594	
10 20	30 40	50 60
MVAVGCALLAALLAAPGAAL	APRRCPAQEVARGVLTSLPG	DSVTLTCPGVEPEDNATVHW
70 80	90 100	110 120
VLRKPAAGSHPSRWAGMGRR	LLLRSVQLHDSGNYSCYRAG	RPAGTVHLLVDVPPEEPQLS
130 140	150 160	170 180
* * CFRKSPLSNVVCEWGPRSTP	* * SLTTKAVLLVRKFQNSPAED	* * FQEPCQYSQESQKFSCQLAV
190 200	210 220	230 240
* * PEGDSSFYIVSMCVASSVGS	* * KFSKTQTFQGCGILQPDPPA	* * NITVTAVARNPRWLSVTWQD
250 260	270 280	290 300
* * PHSWNSSFYRLRFELRYRAE	* * RSKTFTTWMVKDLQHHCVIH	* * DAWSGLRHVVQLRAQEEFGQ
310 320	330 340	
* * GEWSEWSPEAMGTPWTESRS	* *	* * DNILFRDSANATSLPVQDAG
370 380	390 400	<i>,</i> -
*† † * EPKSCDKTHTCPPCPAPELL	* * GGPSVFLFPPKPKDTLMISR	* *
<u> </u>	GGFSVFDFFFFFFDIDILISK	TPEVICVVDVSHEDPEVKF
430 440	450 460 * *	470 480
NWYVDGVEVHNAKTKPREEO	YNSTYRVVSVLTVLHODWLN	GKEYKCKVSNKALPAPIEKT
490 500	510 520	530 540
ISKAKGOPREPOVYTLPPSR	DELTKNOVSLTCLVKGFYPS	DIAVEWESNGOPENNYKTTP
550 560	570 580	590
* * PVLDSDGSFFLYSKLTVDKS	* * RWOOGNVFSCSVMHEALHNF	* <u>YYOKSLSLSPGK</u> •

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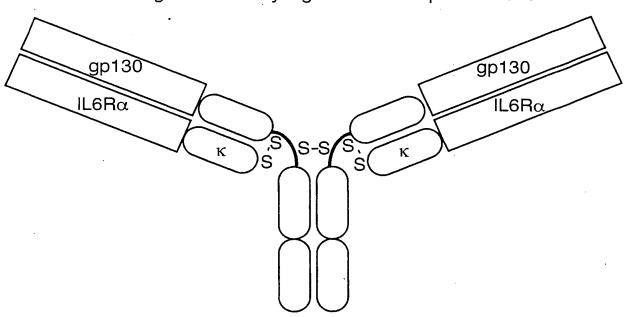


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Fig.8. Immunoglobulin Heavy/Light Chain receptor Fusions



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Fig. 9A

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Amino acid sequence of gp130-Cy1

Sequence Range: 1 to 952-1 MVTLQTWVVQALFIFLTTES TGELLDPCGYISPESPVVQL HSNFTAVCVLKEKCMDYFHV NANYIVWKTNHFTIPKEQYT IINRTASSVTFTDIASLNIQ LTCNILTFGQLEQNVYGITI ISGLPPEKPKNLSCIVNEGK KMRCEWDGGRETHLETNFTL KSEWATHKFADCKAKRDTPT SCTVDYSTVYFVNIEVWVEA ENALGKVTSDHINFDPVYKV KPNPPHNLSVINSEELSSIL KLTWTNPSIKSVIILKYNIQ YRTKDASTWSQIPPEDTAST RSSFTVQDLKPFTEYVFRIR CMKEDGKGYWSDWSEEASGI TYEDRPSKAPSFWYKIDPSH TQGYRTVQLVWKTLPPFEAN GKILDYEVTLTRWKSHLONY TVNATKLTVNLTNDRYLATL TVRNLVGKSDAAVLTIPACD FQATHPVMDLKAFPKDNMLW VEWTTPRESVKKYILEWCVL SDKAPCITDWQQEDGTVHRT YLRGNLAESKCYLITVTPVY ADGPGSPESIKAYLKQAPPS KGPTVRTKKVGKNEAVLEWD QLPVDVQNGFIRNYTIFYRT IIGNETAVNVDSSHTEYTLS SLTSDTLYMVRMAAYTDEGG KDGPEFTFTTPKFAQGEIES GASTKGPSVFPLAPSSKSTS GGTAALGCLVKDYFPEPVTV SWNSGALTSGVHTFPAVLOS SGLYSLSSVVTVPSSSLGTO TYICNVNHKPSNTKVDKKVE PKSCDKTHTCPPCPAPELLG GPSVFLFPPKPKDTLMISRT PEVTCVVVDVSHEDPEVKFN Title: RECEPTOR BASED ANTAGONISTS
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Fig. 9B

Fig. 10.

Amino acid sequence of gp130Δ3fibro

sequence Range: 1	CO	332			
10 *	20 *	30	40 *	50 *	60 *
MVTLQTWVVQALFIFLT	TES	TGELLDPCGYI	SPESPVVQL	HSNFTAVCVLK	EKCMDYFHV
70	80 *:	90	100	110	120
NANYIVWKTNHFTIPKE	ΩYT	IINRTASSVTF	TDIASLNIQ	LTCNILTFGQL	EQNVYGITI
130	L40 ★	150 *	160 *	170 *	180
ISGLPPEKPKNLSCIVN	EGK	KMRCEWDGGRE	THLETNFTL	KSEWATHKFAD	CKAKRDTPT
190 20	00	210	220	230	240
SCTVDYSTVYFVNIEVW	VEA	ENALGKVTSDH	INFDPVYKV	KPNPPHNLSVI	NSEELSSIL
250 *	260	270	280	290	300
KLTWTNPSIKSVIILKY	QIN	YRTKDASTWSQ	IPPEDTAST	RSSFTVQDLKF	FTEYVFRIR
310	320 *	330		i	
CMKEDGKGYWSDWSEEA	SGI	TYEDRPSKAPS	G	;	

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Fig.11.

Amino acid sequence of J-CH1

Sequence Range: 1 to 121

Sequence Range: 1 to 330

Fig. 12.

Amino acid sequence of Cy4

10 2.0 30 SGASTKGPSVFPLAPCSRST SESTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLO 70 90 80 100 110 120 SSGLYSLSSVVTVPSSSLGT KTYTCNVDHKPSNTKVDKRV ESKYGPPCPSCPAPEFLGGP 130 140 160 150 180

310 320 330

EGNVFSCSVMHEALHNHYTO KSLSLSLGK*



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Fig.13.

Amino acid sequence of k-domain

Fig.14.

Amino acid sequence of λ -domain:

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Fig.15.

Amino acid sequence of the soluble IL-6R α domain Sequence Range: 1 to 360

10	20	30	40	50	60
*	*	*	*	*	*
MUAUCCAT.T.A	אר.ד.א א מכוא אד.	מושם אם מפספ א	א מכנוד שפר מכי	DSVTLTCPGVE	THE WALKERS
HAMAGCADHU	TILLAR! GAALI	AFMICEAQEVA	MGADIPHE	DSVILICEGVE	PEDNATARM
70	0.0	0.0			
70	80	90	100	110	120
*	*	*	*	*	*
VLRKPAAGSH	PSRWAGMGRR	LLLRSVQLHD	SGNYSCYRAG	RPAGTVHLLVI	OVPPEEPOLS
					~
130	140	150	160	170	180
*	*	*	*	*	*
CEDVODI CATA	CODMODD COD	CIMMVALITIA	DVEONCDAED	FORDOOVGOD	201/2001 111
CERVSERSMA	VCEWGPRSIP	SULLYWARD	MAT QNSPAED	FQEPCQYSQES	SQRESCQLAV
14.00	0.00				
190	200	210	220	230	240
*	*	*	*	*	*
PEGDSSFYIVS	SMCVASSVGS	KFSKTQTFQG	CGILQPDPPA	NITVTAVARNI	RWLSVTWOD
					~
250	260	270	280	290	300
*	*	*	*	*	*
DUCUMCCEVE	ם גמעם זמם ם ז	D CYMERMANA I	KDI OMMATI	DAWSGLRHVV	
LU2MM29LIK	DKLEDKIKAE	KRILLIMMA	CDDQUUCVIA	DAWSGLKHVV(SPRYÖFFLGÖ
240	200	220	240		
310	320	330	340	350	360
*	*	*	*	*	*
GEWSEWSPEA	MGTPWTESRS	PPAENEVSTP	MQALTTNKDD	DNILFRDSAN	ATSLPVQDAG

Fig.16.

Amino acid sequence of the soluble IL-6ku313 domain Sequence Range: 1 to 315

	•				
60 *	50.	40 *	30	20	10
PEDNATVHW	DSVTLTCPGVE	ARGVLTSLPG	APRRCPAQEVA	ALLAAPGAAL	MVAVGCALLA
120 *	110	100	90 *	80	70 *
VPPEEPQLS	RPAGTVHLLVE	SGNYSCYRAG	LLLRSVQLHD	PSRWAGMGRR	VLRKPAAGSH
180	170 *	160 *	150 *	140	130
QKFSCQLAV	FQEPCQYSQES	RKFQNSPAED	SLTTKAVLLVI	VCEWGPRSTP	CFRKSPLSNV
240	230	220	210	200	190 *
RWLSVTWQD	NITVTAVARNP	CGILQPDPPA	KFSKTQTFQG	SMCVASSVGS	PEGDSSFYIV
300	290	280 *	270 *	260 *	250 *
LRAQEEFGQ	DAWSGLRHVVQ	KDLQHHCVIH	RSKTFTTWMVI	LRFELRYRAE	PHSWNSSFYRI
					310

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Fig.17.

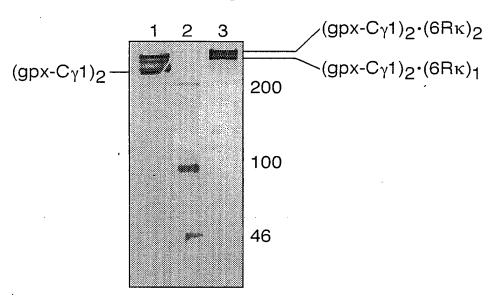
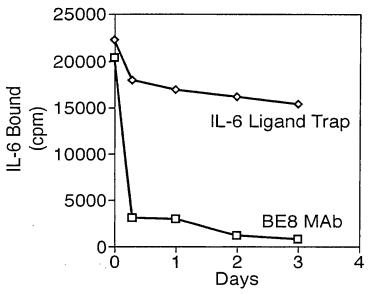


Fig.18.

IL-6 Dissociates Slowly from the Ligand Trap

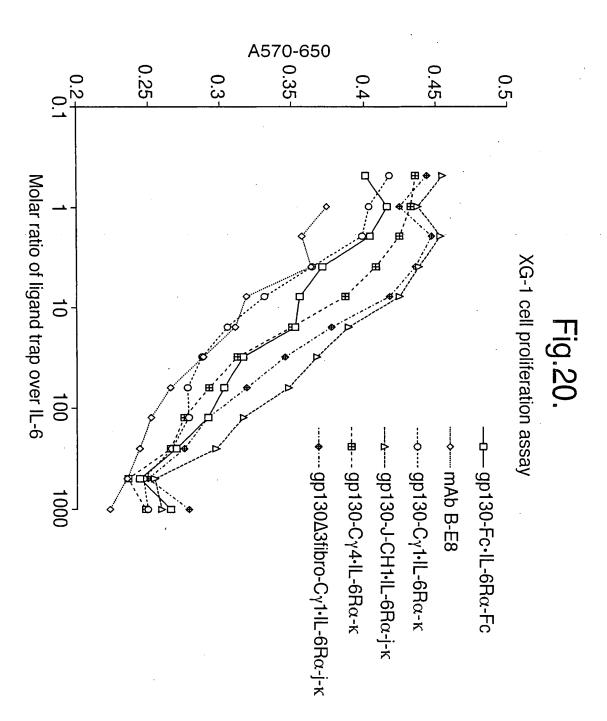


Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND Ventor: STAHL, et al.
Docket No.: REG 203-A 14/39 Protein A binding IL6Ra GF6F S-S gp130 T_C No Protein A binding gp130 GF6F G16K Fig. 19A GF6F & G16K Does IL-6 Induce Complex Formation? gp130 IL6Rα_T L6Rα

Blot: α-kappa

IP: Prot A

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Fig.21A.

	1 19	J. \subset		•										. •	> .
		1	.0			20			30			4	0		137
ATG	* GTG	AAG	* CCA	* TCA	ATT	* CCA	TTC	* ACA	* TCC	CTC	* TTA	TTC	* CTG	. * CAG	CTG
Met	Val	Lys	Pro	Ser	Leu	Pro	Phe	Thr	Ser	Leu	Leu	Phe	Leu	Gln	Leu>
50 *		*	60 *		*	7	0	*		80 *		*	90 *		*
CCC	CTG	CTG	GGA	GTG	GGG	CTG	AAC	ACG	ACA	ATT	CTG	ACG	CCC	TAA	GGG Gly>
		Leu			GIĀ			1111	1111			1111			GIY>
10	*	*	1	.10		*	120		*	13	*	*	L	.40	
AAT Asn	GAA Glu	GAC Asp	ACC Thr	ACA Thr	GCT Ala	GAT Asp	TTC Phe	TTC Phe	CTG Leu	ACC Thr	ACT Thr	ATG Met	CCC Pro	ACT Thr	GAC Asp>
*	150		_	16	50		1	.70		+	180			19	*
TCC	CTC	AGT Ser	GTT Val	TCC Ser	ACT	CTG Leu	CCC Pro	CTC Leu	CCA Pro	GAG Glu	GTT	CAG Gln	TGT Cys	TTT Phe	
	2	200			210			22	20		2	230		*	240
* TTC Phe	AAT Asn	* GTC Val	GAG Glu	* TAC Tyr	ATG Met	AAT Asn	TGC Cys	ACT Thr	TGG Trp	AAC Asn	AGC Ser	AGC Ser	TCT Ser	GAG	
		2	50	ı.	2	260			270	٠	•	28	30		
CAG Gln	CCT Pro	ACC Thr	AAC Asn	CTC Leu	ACT Thr	CTG Leu	CAT His	TAT Tyr	TGG Trp	TAC Tyr	AAG Lys	AAC Asn	TCG	GAT Asp	AAT Asn>
290		*	300		*	3 3	LO *	*	. :	320		*	330		*
GAT	AAA	GTC	CAG	AAG	TGC	AGC	CAC	TAT Tvr	CTA Leu	TTC Phe	TCT	GAA Glu	GAA Glu	ATC Ile	ACT Thr>
	40	VUL		350	0,0	00-	360				70			380	
	*	*		*		*	*		*		*	*		*	
TCT Ser	GGC Gly	TGT Cys	CAG Gln	TTG Leu	CAA Gln	AAA Lys	AAG Lys	GAG Glu	ATC Ile	CAC His	CTC Leu	TAC Tyr	CAA Gln	ACA Thr	TTT Phe>
	390			4	00		4	410		*	420		*	4	30
* GTT Val	GTT Val	CAG	CTC	CAG	GAC Asp	CCA Pro	CGG	GAA	CCC Pro	AGG Arg	AGA Arg	CAG Gln	GCC Ala	ACA Thr	
V 4.1		440	. 200		450		J		60	_		470			480
* *	OM A	*	CTG	*	* *	CTC	* CTC	<u>እ</u> ጥር	*	.* ™GG	GCT	* CCA	GAG	*	* ፈጥጋ
Met	Leu	Lys	Leu	Gln	Asn	Leu	Val	Ile	Pro	Trp	Ala	Pro	Glu	Asn	Leu>
	*	4	90	*		500		*	510 *		*	5	20	*	
															AAC Asn>
530		*	540		*	5	5 0	*		560		*	570		*
		TTC	AAC	CAC											GAC Asp>

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Fig.21B.

•	1 1,	9.2	. ! L	<i>)</i> .										٠,	
5 8	30 *	*	5	90		*	600		*	. 61	.0	*	ϵ	520 ·	3
				TGG Trp											TTC Phe>
*	630		*	64	0	•	ϵ	50		*	660			.67	70
TCC				GTG Val	GAT					TAC					CGG Arg>
	. 6	80		*	690		*	70	00	*	7	10		*	720
				CCA Pro											TGG Trp>
	*	73	3 O *	*	7	40 *		*	750 *		*	76	50 *	*	
				CAC His											TCG Ser>
770 *		*	780		*	79	90	*	8	300		*	810		
				AAG Lys									TCC		TAC Tyr>
8:	20		8	330			840		*	8 !	50	*	1	360	
	AGC			ACT Thr			TGG								TGC Cys>
	870														
	0,0			88	30		1	890		+	900			9:	10
	* ACC			CGC	* CTG		TAC	* CAG			* TTT			TCC	*
AGC	* ACC Thr			CGC	* CTG		TAC	* CAG Gln	Leu 40		* TTT Phe			TCC Ser	* GAA
AGC Ser * GCC	* ACC Thr	Glu 920 * ACG	Leu TGT	CGC Arg * ATC	CTG Leu 930 *	Leu GAG	TAC Tyr * AAC	* CAG Gln 9	Leu 40 * GGA	Val * GGC	* TTT Phe GCG	Leu 950 * GGG	Leu TGC	TCC Ser * GTG	* GAA Glu> 960 *
AGC Ser * GCC	* ACC Thr	Glu 920 * ACG Thr	Leu TGT	CGC Arg * ATC	CTG Leu 930 * CCT Pro	Leu GAG	TAC Tyr * AAC	CAG Gln 9 AAC Asn	Leu 40 * GGA	Val * GGC	TTT Phe GCG	Leu 950 * GGG	TGC Cys	TCC Ser * GTG	* GAA Glu> 960 * TGC
AGC Ser * GCC Ala	* ACC Thr CAC His	Glu 920 * ACG Thr 9	TGT Cys 70 * ATG	CGC Arg * ATC Ile	CTG Leu 930 * CCT Pro	GAG Glu 980 *	TAC Tyr * AAC Asn	* CAG Gln 9 AAC Asn * AGT	Leu 40 * GGA Gly 990 *	* GGC Gly GAT	* TTT Phe GCG Ala * AAC	Leu 950 * GGG Gly 100	TGC Cys	TCC Ser * GTG Val	* GAA Glu> 960 * TGC
AGC Ser * GCC Ala	* ACC Thr CAC His	Glu 920 * ACG Thr 9 CTC Leu	TGT Cys 70 * ATG	CGC Arg * ATC Ile	CTG Leu 930 * CCT Pro	GAG Glu 980 *	TAC Tyr * AAC Asn GTC Val	* CAG Gln 9 AAC Asn * AGT	Leu 40 * GGA Gly 990 * GCG Ala	* GGC Gly GAT	* TTT Phe GCG Ala * AAC	GGG Gly 100 TAT	TGC Cys	TCC Ser * GTG Val	* GAA Glu> 960 * TGC Cys>
AGC Ser * GCC Ala CAC His	* ACC Thr CAC His t CTG Leu	Glu 920 * ACG Thr 9 CTC Leu * GCT	TGT Cys 70 * ATG Met 1020 *	CGC Arg * ATC Ile * GAT Asp	CTG Leu 930 * CCT Pro GAC Asp	GAG Glu 980 * GTG Val 100	TAC Tyr * AAC Asn GTC Val	* CAG Gln 9 AAC Asn * AGT Ser * TGG	Leu 40 * GGA Gly 990 * GCG Ala 10 AAG	Val * GGC Gly GAT Asp 040 * GGC	TTT Phe GCG Ala * AAC Asn	GGG Gly 100 TAT Tyr	TGC Cys 00 * ACA Thr	TCC Ser * GTG Val * CTG Leu	* GAA Glu> 960 * TGC Cys> GAC Asp>
AGC Ser * GCC Ala CAC His	* ACC Thr CAC His CTG Leu TGG Trp	Glu 920 * ACG Thr 9 CTC Leu * GCT	TGT Cys 70 * ATG Met 1020 * GGG Gly	CGC Arg * ATC Ile * GAT Asp	CTG Leu 930 * CCT Pro GAC Asp	GAG Glu 80 * GTG Val 10: CTG Leu	TAC Tyr * AAC Asn GTC Val	* CAG Gln 9 AAC Asn * AGT Ser TGG Trp	Leu 40 * GGA Gly 990 * GCG Ala 10 AAG	Val * GGC Gly GAT Asp 040 * GGC	TTT Phe GCG Ala * AAC Asn TCC Ser	GGG Gly 100 TAT Tyr	TGC Cys 00 * ACA Thr 1050 * AAG Lys	TCC Ser * GTG Val * CTG Leu	* GAA Glu> 960 * TGC Cys> GAC Asp> * AGC
AGC Ser * GCC Ala CAC His 1010 * CTG Leu 10	* ACC Thr CAC His CTG Leu TGG Trp 60 * CAT	Glu 920 * ACG Thr 9 CTC Leu * GCT Ala	TGT Cys 70 * ATG Met 1020 * GGG Gly	CGC Arg * ATC Ile * GAT Asp CAG Gln 070 * CCC	CTG Leu 930 * CCT Pro GAC Asp * CAG Gln	GAG Glu 80 * GTG Val 10: CTG Leu * GCC	TAC Tyr AAC Asn GTC Val CTG Leu 1080 *	* CAG Gln 9 AAC Asn * AGT Ser TGG Trp GGA	Leu 40 * GGA Gly 990 * GCG Ala 10 AAG Lys * AAC	GGC Gly GAT Asp 040 * GGC Gly 10 CTG	TTT Phe GCG Ala * AAC Asn TCC Ser 90 * ACA	GGG Gly 100 TAT Tyr * TTC Phe	TGC Cys 00 * ACA Thr 1050 * AAG Lys	TCC Ser * GTG Val * CTG Leu CCC Pro 100 * ACC	* GAA Glu> 960 * TGC Cys> GAC Asp> * AGC
AGC Ser * GCC Ala CAC His 1010 * CTG Leu 10 GAG Glu	* ACC Thr CAC His CTG Leu TGG Trp 60 * CAT	Glu 920 * ACG Thr 9 CTC Leu * GCT Ala * GTG Val	TGT Cys 70 * ATG Met 1020 * GGG Gly	CGC Arg * ATC Ile * GAT Asp CAG Gln 070 * CCC	CTG Leu 930 * CCT Pro GAC Asp * CAG Gln	GAG Glu 80 * GTG Val 10: CTG Leu * GCC	TAC Tyr * AAC Asn GTC Val 30 * CTG Leu 1080 *	* CAG Gln 9 AAC Asn * AGT Ser TGG Trp GGA	Leu 40 * GGA Gly 990 * GCG Ala 10 AAG Lys * AAC	GGC Gly GAT Asp GGC Gly 10 CTG Leu	TTT Phe GCG Ala * AAC Asn TCC Ser 90 * ACA	GGG Gly 100 TAT Tyr * TTC Phe	TGC Cys 00 * ACA Thr 1050 * AAG Lys	TCC Ser * GTG Val * CTG Leu CCC Pro 100 * ACC	* GAA Glu> 960 * TGC Cys> GAC Asp> * AGC Ser> AAT Asn>
AGC Ser * GCC Ala CAC His 1010 * CTG Leu 10 GAG Glu * GTC	* ACC Thr CAC His * CTG Leu TGG Trp 60 * CAT His 1110 * TCC	Glu 920 * ACG Thr 9 CTC Leu * GCT Ala * GTG Val	TGT Cys 70 * ATG Met 1020 * GGG Gly 1 AAA Lys	CGC Arg * ATC Ile * GAT Asp CAG Gln 070 * CCC Pro 11	CTG Leu 930 * CCT Pro GAC Asp CAG Gln AGG Arg 20 * CTG	GAG Glu 80 * GTG Val 10: CTG Leu * GCC Ala	TAC TYT AAC ASN GTC Val 30 * CTG Leu 1080 Pro	CAGGIN 9 AACASN * AGTSET TGGGTTP GGAGIY 130 TGG	Leu 40 * GGA Gly 990 * GCG Ala 10 AAG Lys * AAC Asn	GGC Gly GAT Asp GGC Gly 10 CTG Leu	TTT Phe GCG Ala * AAC Asn TCC Ser 90 * ACA Thr 1140 * CCG	Leu 950 GGG Gly 100 TAT TYT * TTC Phe CTT Val	TGC Cys 00 * ACA Thr 1050 * AAG Lys 1 CAC His	TCC Ser * GTG Val * CTG Leu CCC Pro 100 * ACC Thr 11 CCT	GAA Glu> 960 * TGC Cys> GAC Asp> * AGC Ser> AAT Asn>

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Fig.21C.

AAT TAC CTG TAT AAT CAT CTC ACC TAT GCA GTC AAC ATT TGG AGT GAA Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala Val Asn Ile Trp Ser Glu> 1220 1230 AAC GAC CCG GCA GAT TTC AGA ATC TAT AAC GTG ACC TAC CTA GAA CCC Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn Val Thr Tyr Leu Glu Pro> 1250 1270 1280 1260 TCC CTC CGC ATC GCA GCC AGC ACC CTG AAG TCT GGG ATT TCC TAC AGG Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys Ser Gly Ile Ser Tyr Arg> 1320 1310 GCA CGG GTG AGG GCC TGG GCT CAG TGC TAT AAC ACC ACC TGG AGT GAG Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr Asn Thr Trp Ser Glu> 1360 1370 1380 1390 TGG AGC CCC AGC ACC AAG TGG CAC AAC TCC TAC AGG GAG CCC TTC GAG Trp Ser Pro Ser Thr Lys Trp His Asn Ser Tyr Arg Glu Pro Phe Glu> 1410 1420 1430 CAG TCC GGA GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA Gln Ser Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu> 1450 1460 1470 1480 CTC CTG GGG GGA CCG TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp> 1510 1500 1520 1530 ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GAC Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp> 1560 1570 1550 1580 GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly> 1600 1590 1610 1620 GTG GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn> 1640 1650 1660 1670 1680 AGC ACG TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp> 1700 1710 CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro> 1730 1740 1750 1760

GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu> Title: RECEPTOR BASED ANTAGONISTS

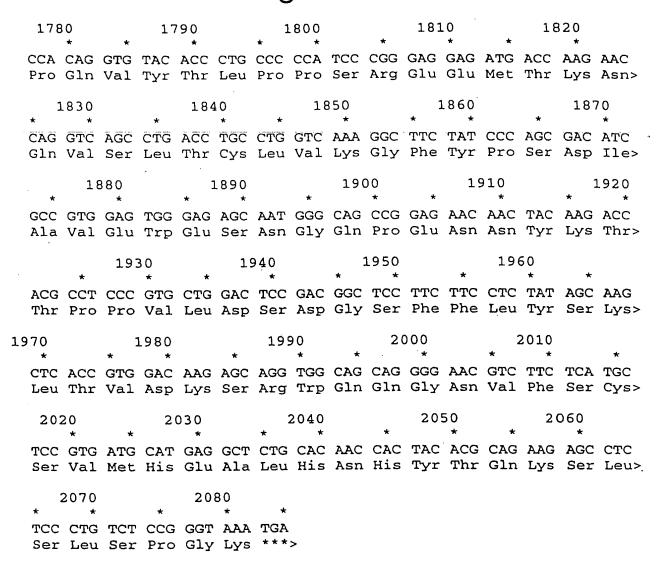
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Fig.21D.



Title: RECEPTOR BASED ANTAGONISTS
AND METHODS OF MAKING AND USING
rentor: STAHL, et al.
Docket No.: REG 203-A

Fig.22A.

	*	1	0	*		20		*	30 *		*	. 4	. O *	*	
			CCA Pro												CTG Leu>
5 0 *		*	60 *		*	7	0	*		80		*	90 *		*
_CCC Pro			GGA		GGG										
10) O *	*	1	10		*	120		*	13	0	*	1	40	
			ACC Thr												GAC Asp>
*	150		+	16	0	*	1	.70		*	180		*	19	00
TCC	CTC		GTT Val		ACT	CTG		CTC		GAG					
*	2	200		*	210		*	22	20	*	2	230		*	240
TTC Phe	AAT Asn	GTC Val	GAG Glu	TAC Tyr	ATG	AAT Asn	TGC Cys	ACT Thr	TGG Trp	AAC Asn	AGC Ser	AGC Ser	TCT Ser	GAG	
	*	25	50	*	2	60		*	270		*	28	B 0 *	*	
CAG Gln	CCT Pro	ACC Thr	AAC Asn	CTC Leu	ACT Thr	CTG Leu	CAT His	TAT Tyr	TGG Trp	TAC Tyr	AAG Lys	AAC Asn	TCG Ser	GAT Asp	AAT Asn>
290		*	300		*	3:	LO *	*	:	320		*	330		*
* GAT	AAA Lys	* GTC Val	* CAG	AAG Lys	* TGC Cys	AGC	* CAC	* TAT Tyr	СТА	* TTC	TCT Ser	GAA	* GAA	ATC	* ACT Thr>
* GAT Asp	AAA Lys 40	* GTC Val	* CAG Gln	Lys 350	* TGC Cys	AGC Ser	* CAC	* TAT Tyr	СТА	* TTC Phe	TCT Ser	GAA Glu	* GAA Glu	Ile 380	* ACT Thr>
* GAT Asp 3	Lys 40 * GGC	Val * TGT	* CAG Gln CAG	Lys 50 * TTG	Cys	AGC Ser *	CAC His 360 *	Tyr GAG	CTA Leu * ATC	* TTC Phe 3'	Ser 70 * CTC	GAA Glu * TAC	GAA Glu CAA	Ile 380 * ACA	Thr>
* GAT Asp 3	Lys 40 * GGC	Val * TGT	* CAG Gln CAG	Lys 350 * TTG Leu	Cys	AGC Ser *	CAC His 360 * AAG Lys	Tyr GAG	CTA Leu * ATC	* TTC Phe 3'	Ser 70 * CTC	GAA Glu * TAC	GAA Glu CAA	Ile 380 * ACA Thr	Thr>
* GAT Asp 3 TCT Ser *	Lys 40 * GGC Gly 390 *	* TGT Cys	CAG Gln CAG Gln	Lys 350 * TTG Leu 4	Cys CAA Gln 00 *	AGC Ser * AAA Lys	CAC His 360 * AAG Lys	GAG Glu 410 *	CTA Leu * ATC Ile	* TTC Phe 3 CAC His	Ser 70 * CTC Leu 420 * AGA	GAA Glu * TAC Tyr	* GAA Glu CAA Gln *	Ile 380 * ACA Thr 4	Thr> TTT Phe>
* GAT Asp 3 TCT Ser *	Lys 40 * GGC Gly 390 * GTT Val	* TGT Cys	CAG Gln CAG Gln	Lys 350 * TTG Leu 4	Cys CAA Gln 00 *	AGC Ser * AAA Lys	CAC His 360 * AAG Lys	GAG Glu 410 * GAA Glu	CTA Leu * ATC Ile	* TTC Phe 3 CAC His	Ser 70 * CTC Leu 420 * AGA Arg	GAA Glu * TAC Tyr	* GAA Glu CAA Gln *	Ile 380 * ACA Thr 4	Thr> TTT Phe> 30 * CAG
* GAT Asp 3 TCT Ser * GTT Val	Lys 40 * GGC Gly 390 * GTT Val	Val * TGT Cys CAG Gln 440 * AAA	CAG Gln CAG Gln * CTC Leu	Lys 350 * TTG Leu 4 CAG Gln *	Cys CAA Gln OO * GAC Asp 450 *	AGC Ser * AAA Lys * CCA Pro	CAC His 360 * AAG Lys CGG Arg * GTG	GAG Glu 410 * GAA Glu 4 ATC	CTA Leu * ATC Ile CCC Pro	* TTC Phe 3.* CAC His * AGG Arg TGG	Ser 70 * CTC Leu 420 * AGA Arg	GAA Glu * TAC Tyr CAG Gln 470 *	* GAA Glu CAA Gln * GCC Ala	Ile 380 ACA Thr 4 ACA Thr	Thr> TTT Phe> CAG Gln> 480
* GAT Asp 3 TCT Ser * GTT Val	Lys 40 * GGC Gly 390 * GTT Val	TGT Cys CAG Gln 440 * AAA Lys	CAG Gln CAG Gln * CTC Leu	Lys 350 * TTG Leu 4 CAG Gln *	Cys CAA Gln GAC Asp 450 * AAT Asn	AGC Ser * AAA Lys * CCA Pro	CAC His 360 * AAG Lys CGG Arg * GTG	GAG Glu 410 * GAA Glu 4 ATC	CTA Leu * ATC Ile CCC Pro	* TTC Phe 3.* CAC His * AGG Arg TGG	Ser 70 * CTC Leu 420 * AGA Arg	GAA Glu * TAC Tyr CAG Gln 470 * CCA	* GAA Glu CAA Gln * GCC Ala	Ile 380 ACA Thr 4 ACA Thr	Thr> TTT Phe> CAG Gln> 480 * CTA
* GAT Asp 3 TCT Ser * GTT Val ATG Met	Lys 40 * GGC Gly 390 * GTT Val CTA Leu *	TGT Cys CAG Gln 440 * AAA Lys	CAG Gln CAG Gln * CTC Leu CTG Leu AAA	Lys 350 * TTG Leu 40 CAG Gln * CAG Gln *	Cys CAA Gln 00 * GAC Asp 450 * AAT Asn	AGC Ser * AAA Lys CCA Pro CTG Leu	CAC His 360 * AAG Lys CGG Arg * GTG Val	GAG Glu 410 * GAA Glu 4 ATC Ile	CTA Leu * ATC Ile CCC Pro 60 * CCC Pro	* TTC Phe 3.* CAC His AGG Arg TGG Trp	Ser 70 * CTC Leu 420 * AGA Arg GCT Ala * CTG	GAA Glu * TAC Tyr CAG Gln 470 * CCA Pro	GAA Glu CAA Gln * GCC Ala GAG Glu 20 * TGG	Ile 380 ACA Thr 4 ACA Thr * AACA AAC	Thr> TTT Phe> CAG Gln> 480 * CTA
* GAT Asp 3 TCT Ser * GTT Val ATG Met	Lys 40 * GGC Gly 390 * GTT Val CTA Leu *	TGT Cys CAG Gln 440 * AAA Lys	CAG Gln CAG Gln * CTC Leu CTG Leu AAA	Lys 350 * TTG Leu 4 CAG Gln * CAG Gln * CTG Leu	Cys CAA Gln 00 * GAC Asp 450 * AAT Asn	AGC Ser * AAA Lys CCA Pro CTG Leu 500 *	CAC His 360 * AAG Lys CGG Arg * GTG Val	GAG Glu 410 * GAA Glu 4 ATC Ile	CTA Leu * ATC Ile CCC Pro 60 * CCC Pro	* TTC Phe 3.* CAC His AGG Arg TGG Trp	Ser 70 * CTC Leu 420 * AGA Arg GCT Ala * CTG	GAA Glu * TAC Tyr CAG Gln 470 * CCA Pro	GAA Glu CAA Gln * GCC Ala GAG Glu 20 * TGG	Ile 380 ACA Thr 4 ACA Thr AACA ASN AAC	Thr> TTT Phe> 30 * CAG Gln> 480 * CTA Leu>

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	Fig	g.2	2E	3.		,	21/	59						÷	
58				90			600			61	0		6	20	٠
TGG Trp	GAC Asp	CAC His	AGC Ser	TGG Trp	ACT Thr	* GAA Glu	CAA Gln	TCA Ser	GTG Val	GAT Asp	TAT Tyr	AGA Arg	CAT His	AAG Lys	TTC Phe>
	630			64	0		6	50			660			67	0
*	*	005	*	O.D.O.	*	*	020	*	CCC	* TD D C	*	տտտ	*	GTT	*
Ser	Leu	Pro	Ser	Val	Asp	Gly	Gln	Lys	Arg	Tyr	Thr	Phe	Arg	Val	Arg>
*	6	80		*	690 *		*	70	0 *	*	7	10 *		*	720 *
AGC Ser	CGC Arg	TTT Phe	AAC Asn	CCA Pro	CTC Leu	TGT Cys	GGA Gly	AGT Ser	GCT Ala	CAG Gln	CAT His	TGG Trp	AGT Ser	GAA Glu	TGG Trp>
		73	0		7	40			750			76			
AGC	* CAC	CCA	*	* CAC	ጥርር	* GGG	AGC	*. AAT	* ACT	TCA	* AAA	GAG	* AAC	* GGG	AAC
Ser	His	Pro	Ile	His	Trp	Gly	Ser	Asn	Thr	Ser	Lys	Glu	Asn	Gly	Asn>
770 *		*	780		*	79	90 *	*	8	300 *		*	810		*
ATG Met	AAG Lys	GTC Val	CTG Leu	CAG Gln	GAG Glu	CCC Pro	ACC Thr	TGC Cys	GTC Val	TCC Ser	GAC Asp	TAC Tyr	ATG Met	AGC Ser	ATC Ile>
	20			330	,		840			85				360	
Tr CTr	* እርጥ	* TGC	GAG	* TGG	ממ	* АПС	* ጥልል	GGT	*	ACC	* AAT	* TGC	AGC	* ACC	GAG
Ser	Thr	Cys	Glu	Trp	Lys	Met	Asn	Gly	Pro	Thr	Asn	Cys	Ser	Thr	Glu>
ai.	870			88	30		8	390 *		+	900			91	LO .
CTC	CGC	CTG	TTG	TAC	CAG	CTG	GTT	TTT	CTG	CTC	TCC	GAA	GCC	CAC	ACG
Leu	Arg	Leu	Leu	Tyr	Gln	Leu	Val	Phe	Leu	Leu	Ser	Glu	Ala	His	Thr>
	(~ ~ ~							950			960
	•	920		*	930		*	94	10 *	*	:	*		*	*
TGT Cys	ATC	* CCT	GAG Glu	* AAC Asn	* AAC	GGA Gly	* GGC Gly	GCG	* GGG	* TGC Cys	GTG	* TGC	CAC His	* CTG Leu	* CTC
TGT Cys	ATC	* CCT Pro	GAG Glu 70	Asn	* AAC Asn	GGA Gly	* GGC Gly	GCG Ala	* GGG Gly	* TGC Cys	GTG Val	* TGC	His	Leu	*
Cys	ATC Ile	* CCT Pro	Glu 70 *	Asn *	AAC Asn	* 80 Gly	Gly	GCG Ala	* GGG Gly 990 *	Cys	GTG Val	* TGC Cys	His	Leu *	* CTC Leu>
Cys	ATC Ile *	* CCT Pro 97	Glu 70 * GTG	Asn * GTC	AAC Asn	Gly 80 * GCG	Gly GAT	GCG Ala * AAC	GGG Gly 990 *	Cys	GTG Val * CTG	TGC Cys 100	His 00 * CTG	Leu * TGG	* CTC
Cys	ATC Ile *	CCT Pro 97 GAC Asp	Glu 70 * GTG	Asn * GTC	AAC Asn	Gly 80 * GCG	Gly GAT Asp	GCG Ala * AAC	GGG Gly 990 * TAT	Cys	GTG Val * CTG	TGC Cys 100 GAC Asp	His 00 * CTG	Leu * TGG	* CTC Leu>
Cys ATG Met 1010 *	ATC Ile * GAT Asp	CCT Pro 9° GAC Asp	Glu 70 * GTG Val 1020 *	Asn * GTC Val	AAC Asn S AGT Ser	Gly 80 CGCG Ala 10 AAG	Gly GAT Asp 30 *	GCG Ala * AAC Asn	GGG Gly 990 * TAT Tyr	Cys ACA Thr 040 * AAG	GTG Val * CTG Leu	* TGC Cys 100 GAC Asp * AGC	His CTG Leu 1050 * GAG	* TGG Trp	* CTC Leu> GCT Ala>
Cys ATG Met 1010 *	ATC Ile * GAT Asp CAG Gln	CCT Pro 97 GAC Asp * CAG	Glu 70 * GTG Val 1020 * CTG Leu	Asn * GTC Val	AAC Asn S AGT Ser	Gly 80 * GCG Ala 10 AAG Lys	Gly GAT Asp 30 *	GCG Ala * AAC Asn	GGG Gly 990 * TAT Tyr	Cys ACA Thr 040 * AAG	GTG Val * CTG Leu CCC Pro	* TGC Cys 100 GAC Asp * AGC	His CTG Leu 1050 GAG Glu	* TGG Trp	* CTC Leu> GCT Ala> * GTG
Cys ATG Met 1010 * GGG Gly 100	ATC Ile * GAT Asp CAG Gln 60 *	CCT Pro 9' GAC Asp * CAG Gln *	Glu 70 * GTG Val 1020 * CTG Leu 10	Asn * GTC Val CTG Leu 070 * CCA	* AAC Asn AGT Ser * TGG Trp	Gly 80 * GCG Ala 10 AAG Lys *	Gly GAT Asp 30 * GGC Gly 1080 *	GCG Ala * AAC Asn * TCC Ser	GGG Gly 990 TAT Tyr 1 TTC Phe	ACA Thr 040 * AAG Lys 100	GTG Val * CTG Leu CCC Pro	* TGC Cys 100 GAC Asp * AGC Ser *	His CTG Leu 1050 * GAG Glu 1: GTC	teu * TGG Trp CAT His	* CTC Leu> GCT Ala> * GTG Val>
ATG Met 1010 * GGG Gly 100 AAA Lys	ATC Ile * GAT Asp CAG Gln 60 *	CCT Pro 9' GAC Asp * CAG Gln *	Glu 70 * GTG Val 1020 * CTG Leu 10	Asn * GTC Val CTG Leu 070 * CCA	AAC Asn Ser AGT Ser TGG Trp GGA Gly	Gly 80 * GCG Ala 10 AAG Lys *	Gly GAT Asp 30 * GGC Gly 1080 * CTG Leu	GCG Ala * AAC Asn * TCC Ser ACA Thr	GGG Gly 990 TAT Tyr 1 TTC Phe	ACA Thr 040 * AAG Lys 100 CAC	GTG Val * CTG Leu CCC Pro	* TGC Cys 100 GAC Asp * AGC Ser *	His CTG Leu 1050 * GAG Glu 1: GTC	teu * TGG Trp CAT His	CTC Leu> GCT Ala> * GTG Val> GAC Asp>
Cys ATG Met 1010 * GGG Gly 100 AAA Lys	ATC Ile * GAT Asp CAG Gln 60 * CCC Pro	CCT Pro 9° GAC Asp * CAG Gln *	Glu 70 * GTG Val 1020 * CTG Leu 10 GCC Ala	Asn * GTC Val CTG Leu 070 * CCA Pro	* AAC Asn AGT Ser * TGG Trp GGA Gly 20 *	Gly 80 * GCG Ala 10 AAG Lys * AAC Asn	Gly GAT Asp 30 * GGC Gly 1080 * CTG Leu	GCG Ala * AAC Asn * TCC Ser ACA Thr	GGG Gly 990 TAT Tyr 1 TTC Phe	ACA Thr 040 * AAG Lys 100 CAC His	CTG Leu CCC Pro ACC Thr	* TGC Cys 100 GAC Asp * AGC Ser * AAT Asn	His OO * CTG Leu 1050 GAG Glu 1: GTC Val	teu * TGG Trp CAT His 100 * TCC Ser	CTC Leu> GCT Ala> * GTG Val> GAC Asp>
Cys ATG Met 1010 * GGG Gly 100 AAA Lys *	ATC Ile * GAT Asp CAG Gln 60 * CCC Pro 1110 *	CCT Pro 9 GAC Asp * CAG Gln * AGG Arg	Glu 70 * GTG Val 1020 * CTG Leu 10 GCC Ala	Asn * GTC Val CTG Leu 070 * CCA Pro 11 ACC	* AAC Asn Ser TGG Trp GGA Gly 20 * TGG	Gly 80 * GCG Ala 10 AAG Lys * AAC ASD	Gly GAT Asp 30 * GGC Gly 1080 * CTG Leu 1	GCG Ala * AAC Asn * TCC Ser ACA Thr 130 * CCG Pro	GGG Gly 990 TAT TYr 1 TTC Phe * GTT Val	ACA Thr 040 * AAG Lys 100 CAC His	CCC Pro ACC Thr 1140 CCT	TGC Cys 100 GAC Asp * AGC Ser * AAT Asn	His OO * CTG Leu 1050 * GAG Glu 1: GTC Val	teu * TGG Trp CAT His 100 * TCC Ser 11 TAC	CTC Leu> GCT Ala> * GTG Val> GAC Asp>

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TAT AAT CAT CTC ACC TAT GCA GTC AAC ATT TGG AGT GAA AAC GAC CCG, Tyr Asn His Leu Thr Tyr Ala Val Asn Ile Trp Ser Glu Asn Asp Pro> 3 1230 1220 GCA GAT TTC AGA ATC TAT AAC GTG ACC TAC CTA GAA CCC TCC CTC CGC Ala Asp Phe Arg Ile Tyr Asn Val Thr Tyr Leu Glu Pro Ser Leu Arg> 1260 1270 1280 ATC GCA GCC AGC ACC CTG AAG TCT GGG ATT TCC TAC AGG GCA CGG GTG Ile Ala Ala Ser Thr Leu Lys Ser Gly Ile Ser Tyr Arg Ala Arg Val> 1320 1330 1310 1300 AGG GCC TGG GCT CAG AGC TAT AAC ACC ACC TGG AGT GAG TGG AGC CCC Arg Ala Trp Ala Gln Ser Tyr Asn Thr Thr Trp Ser Glu Trp Ser Pro> 1350 1360 1370 1380 1390 * * * * * * * * * * * AGC ACC AAG TGG CAC AAC TCC TAC AGG GAG CCC TTC GAG CAG TCC GGA Ser Thr Lys Trp His Asn Ser Tyr Arg Glu Pro Phe Glu Gln Ser Gly> 1400 1410 1420 1430 GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly> 1450 1460 1470 1480 GGA CCG TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met> 1510 1520 1530 * * * * * * 1500 * ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His> 1560 1570 * * * * 1550 GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val> 1610 1620 1600 CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG TAC His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr> 1670 1660 * 1650 CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly> 00 1710 1720 AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA GCC CCC ATC Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile> 1760

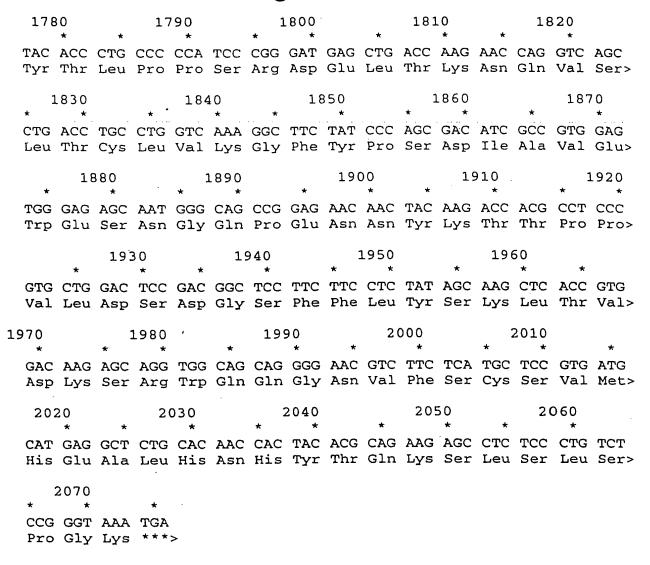
GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA CCA CAG GTG Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val> Title: RECEPTOR BASED ANTAGONISTS

AND METHODS OF MAKING AND SING

inventor: STAHL, et al. Docket No.: REG 203-A

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Fig.22D.



Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND ING Inventor: STAHL, et al. Docket No.: REG 203-A

Fig.23A.

		y.2	20 <i>F</i>	٦.										}- * ŏ,	
	*	1	.O *	*		20		*	30		*	4	0 *	*	As and A
ATG Met	GTG Val	AAG Lys	CCA Pro	TCA Ser	TTA Leu	CCA Pro	TTC Phe	ACA Thr	TCC Ser	CTC Leu	TTA Leu	TTC Phe	CTG Leu	CAG Gln	CTG Leu>
50 *		*	60 *		*	7	0 *	*		80 *		*	90 *		*
CCC Pro	CTG Leu	CTG Leu	GGA Gly	GTG Val	GGG Gly	CTG Leu	AAC Asn	ACG Thr	ACA Thr	ATT Ile	CTG Leu	ACG Thr	CCC Pro	AAT Asn	GGG Gly>
10	00	*	1	10		*	120		*	1,3	0	*	1	.40	
AAT Asn	GAA Glu	GAC Asp	ACC Thr	ACA Thr	GCT Ala	GAT Asp	TTC Phe	TTC Phe	CTG Leu	ACC Thr	ACT Thr	ATG Met	CCC Pro	ACT Thr	GAC Asp>
*	150		*.	16	50 *	*	1	.70		*	180		*	19	• 0
TCC Ser	CTC	AGT Ser	GTT	TCC Ser	ACT	CTG Leu	CCC Pro	CTC Leu	CCA Pro	GAG Glu	GTT Val	CAG Gln	TGT Cys	TTT Phe	GTG Val>
*	2	200		*	210		*	22	* 0	*	2	230		*	240
TTC Phe	AAT Asn	GTC Val	GAG Glu	TAC Tyr	ATG Met	AAT Asn	TGC Cys	ACT Thr	TGG Trp	AAC Asn	AGC Ser	AGC Ser	TCT Ser	GAG Glu	CCC Pro>
	*	25	50 *	*	2	260 *		*	270		*	28	30 *	*	
CAG Gln	CCT Pro	ACC Thr	AAC Asn	CTC Leu	ACT Thr	CTG Leu	CAT His	TAT Tyr	TGG Trp	TAC Tyr	AAG Lys	AAC Asn	TCG Ser	GAT Asp	AAT Asn>
290		*	300		*	3 3	LO *	*	;	320		*	330		*
GAT Asp	AAA Lys	GTC Val	CAG Gln	AAG Lys	TGC Cys	AGC Ser	CAC His	TAT Tyr	CTA Leu	TTC Phe	TCT Ser	GAA Glu	GAA Glu	ATC Ile	ACT Thr>
34	40	*	3	350		*	360		*	3′	70 *	*	;	380	
TCT Ser	GGC	TGT Cys	CAG Gln	TTG Leu	CAA Gln	AAA Lys	AAG Lys	GAG Glu	ATC Ile	CAC His	CTC Leu	TAC Tyr	CAA Gln	ACA Thr	TTT Phe>
*	390		*	4	00	*	•	410		*	420 *		*	4:	30 *
GTT Val	GTT Val	CAG Gln	CTC Leu	CAG Gln	GAC Asp	CCA Pro	CGG Arg	GAA Glu	CCC Pro	AGG Arg	AGA Arg	CAG Gln	GCC Ala	ACA Thr	CAG Gln>
*		440		*	450 *		*	4	60 *	*		470 *		*	480 *
															CTA Leu>
		4	90	*		500		*	510 *		*	5	20	*	
															AAC Asn>
530		*	540 *		*	5	50 *	*		560		*	5.7 0 *		*
															GAC Asp>

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Fig.23B.

		9.2	_0 -	J .											
5,8	0	*	5	90		*	600 *		*	61	0 *	*	6	20 '	
														AAG Lys	
*	630		4	64	0		6	50			660			67	0
TCC	TTG Leu	CCT Pro	AGT Ser	GTG Val	GAT	GGG Gly	CAG Gln	AAA Lys	CGC Arg	TAC Tyr	ACG Thr	TŢT Phe	CGT Arg	GTT Val	CGG Arg>
	6	80	٠	.	690			70	00		7	10			720
AGC Ser	CGC Arg	TTT Phe	AAC Asn	CCA Pro	CTC Leu	TGT Cys	GGA Gly	AGT Ser	GCT Ala	CAG Gln	CAT His	TGG Trp	AGT Ser	GAA Glu	
		73	0		. 7	40			750			76			
AGC	* . CAC	CCA	* ልጥር	* 242	тсс	* GGG	AGC	* TAA	* ACT	TCA	*· AAA	GAG	* AAC	* GCG	TCG
Ser	His	Pro	Ile	His	Trp	Gly	Ser	Asn	Thr	Ser	Lys	Glu	Asn	Ala	Ser>
770 *			780		ų.	79	0	. *	8	300		*	810		*
TCT	GGG Gly	AAC Asn	ATG Met	AAG Lys	GTC Val	CTG Leu	CAG Gln	GAG Glu	CCC Pro	ACC Thr	TGC Cys	GTC Val	TCC Ser	GAC Asp	TAC Tyr>
8:	20		8	330			840			85	50		8	360	
ATG	* AGC	* OTA	тст	* ACT	TGC	* GAG	· * TGG	AAG	* ATG	TAA	* GGT	ccc	ACC	* TAA	TGC
Met	Ser	Ile	Ser	Thr	Суѕ	Glu	Trp	Lys	Met	Asn	Gly	Pro	Thr	Asn	Cys>
	870			88	30	•	1	890		*	900		*	91	LO *
AGC Ser	ACC Thr	GAG Glu	CTC Leu	CGC Arg	CTG	TTG Leu	TAC Tyr	CAG	CTG Leu	GTT Val	TTT Phe	CTG Leu	CTC Leu	TCC Ser	GAA Glu>
		920			930			9	40		!	950			960
GCC Ala	CAC His	ACG Thr	TGT Cys	* ATC Ile	CCT Pro	GAG Glu	AAC Asn	AAC Asn	GGA Gly	GGC Gly	GCG Ala	GGG Gly	TGC Cys	GTG Val	
		9	70			980		*	990		*	10	00	*	
CAC His	* CTG Leu	CTC Leu	* ATG Met	GAT Asp	GAC	GTG	GTC Val	AGT	GCG	GAT	AAC	TAT Tyr	ACA	CTG	GAC Asp>
1010		*	1020		*	10	30	*		040		*	1050		*
CTG Lev	TGC Trp	GCT	GGG	CAG	CAG	CTG Leu	CTG	TGG	AAG	GGC	TCC Ser	TTC	AAG	CCC Pro	AGC Ser>
10	60		1	070		,	1080		4.	10	90		1	100	
GAG	* CAT	* GTG	AAA 6	, ccc	AGG	* GCC	. CCA	GGA	AAC	CTG	* ACA	* GTT	CAC	* ACC	TAA
Glu	His	s Val	. Lys	Pro	Arg	Ala	Pro	Gl3	/ Asr	ı Leu	Thr	Val	His	Thr	Asn>
*	1110) *	*	11	.20	*	, 1	130		*	1140		*	11	50 *
GTC	TC	GAC	AC1	CTC Lev	CTC	CTC	ACC Thi	TGC Trp	AGC Sea	AAC Asr	CCC Pro	TAT Tyr	CCC Pro	CCT Pro	GAC Asp>
		1160			1170)		1:	180		. 1	190			1200

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Fig.23C

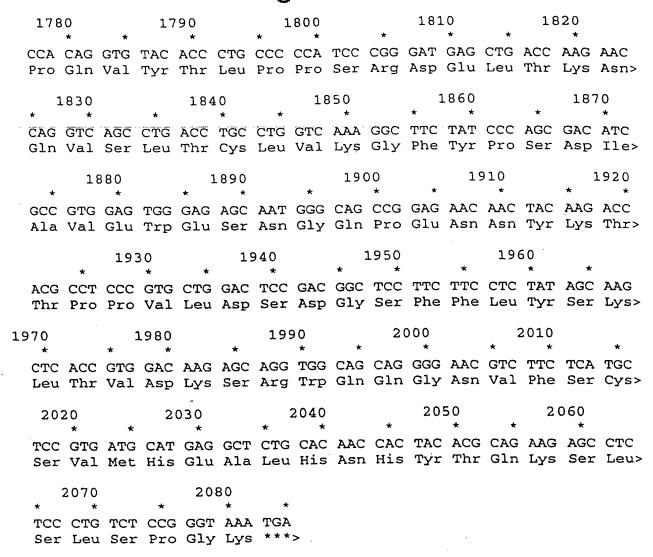
		19	. 2														,
AA As:	ת ת	'AC 'yr	CTG Leu	TAT Tyr	AAT (Asn	CAT (CTC Leu	ACC Thr	TAT Tyr	GCA Ala	GTC Val	AAC Asn	ATT Ile	TGG Trp	AGT Ser,	GAA Glu>	
		*	121	0 *	*	12	20		1	230		*	124	0 *	*		•
AA As	C C	ASP	CCG Pro	GCA Ala	GAT Asp	TTC . Phe	AGA Arg	ATC Ile	TAT Tyr	AAC Asn	GTG Val	ACC Thr	TAC Tyr	CTA Leu	GAA Glu	CCC Pro>	
1250			*	260		*	127	0 *	*	12	.80 *		. 1	290		*	
TC Se	C (CTC Leu	CGC Arg	ATC Ile	GCA Ala	GCC Ala	AGC Ser	ACC Thr	CTG Leu	AAG Lys	TCT Ser	GGG Gly	ATT Ile	TCC Ser	TAC Tyr	AGG Arg>	
1	300) *	*	13	10		1	320		*	133	0 .	*	1.3	340 *		
GC Al	:A (CGG	GTG	AGG Arg	GCC Ala	TGG Trp	GCT Ala	CAG Gln	AGC Ser	TAT Tyr	AAC Asn	ACC Thr	ACC Thr	TGG Trp	AGT Ser	GAG Glu>	
	1				136	★		13	70 ··	, ,	<u>1</u>	-380 *		★	139	0 *	
то	G	AGC	CCC Pro	AGC Ser	ACC Thr	AAG Lys	TGG Trp	CAC His	AAC Asn	TCC Ser	TAC Tyr	AGG Arg	GAG Glu	CCC Pro	TTC Phe	GAG Glu>	
	*	14	100 *		, 1 *	.410		*	142	20 *	*	14	130 *		*	1440 *	
CA G1	AG Ln	TCC Ser	GGA Gly	GAC Asp	AAA Lys	ACT Thr	CAC His	ACA Thr	TGC Cys	CCA Pro	CCG Pro	TGC Cys	CCA Pro	GCA Ala	CCT Pro	GAA Glu>	
		*	14	50	*		160 *		*	1470		*	14	8 O *	*		
C'.	rc eu	cTG Leu	GGG Gly	GGA Gly	CCG	TCA	GTC Val	TTC Phe	CTC Leu	TTC Phe	CCC Pro	CCA Pro	AAA Lys	CCC Pro	AAG Lys	GAC Asp>	•
1490	0			1500		*	15	10	*	1	520 *		*	1530		*	
A(T	CC hr	CTC Leu	ATG Met	ATC Ile	.TCC Ser	CGG Arg	ACC Thr	CCT Pro	GAG Glu	GTC Val	ACA Thr	TGC Cys	GTG Val	GTG Val	GTG Val	GAC Asp>	>
	154	. O *	*		550		*	1560		*	15	70 *	*	1	580 *		
G V	TG al	AGC	CAC	GAA	GAC	CCT Pro	GAG	GTC Val	AAG Lys	TTC Phe	AAC Asn	TGG Trp	TAC Tyr	GTG Val	GAC	GGC Gly	>
*		.590 *		*	16	00	*		610 *		*	1620 *		*	16	30 *	
G	тG	GAG Glu	GTC Val	CAT	AAT Asn	GCC Ala	AAG Lys	ACA Thr	Lys	CCC Pro	G CGG	GAG Glu	GAG Glu	Glr.	TAC TYI	AAC Asn	>
	*	1	640		*	1650 *		*	16	60 *	` *	1	670 *		*	1680	
A S	GC er	ACC Thr	TAC	C CGT	GTG Val	GTC Val	AGC Ser	GTC Val	CTC Lev	ACC Thr	GTC Val	CTG Leu	CAC His	CAG Gln	GAC Asp	TGG Trp:	>
		*	16	590 *	*	1	700 *		*	1710) *	*	17	20	•	+	
C	TG eu	raa 124	r GG(C AAC y Lys	G GAG	TAC Tyr	Lys	TGC Cys	AAC Lys	GT(Val	TCC l Ser	AAC Asr	AAA Lys	GCC Ala	CTC	CCA Pro	·>
173	*		*	1740	r ,	*		′50 *	•	•	L760 *		*	1770	r	*	
D 4	CC (1a	CCC Pro	ATC	C GAG	AAA Lys	ACC Thr	ATC	TCC Ser	Lys	GC0 Ala	AAA a Lys	GGC Gly	G CAC	G CCC	C CGA	A GAA g Glu	.>

Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING ANTAGONISTS

Inventor: STAHL, et al. Docket No.: REG 203-A

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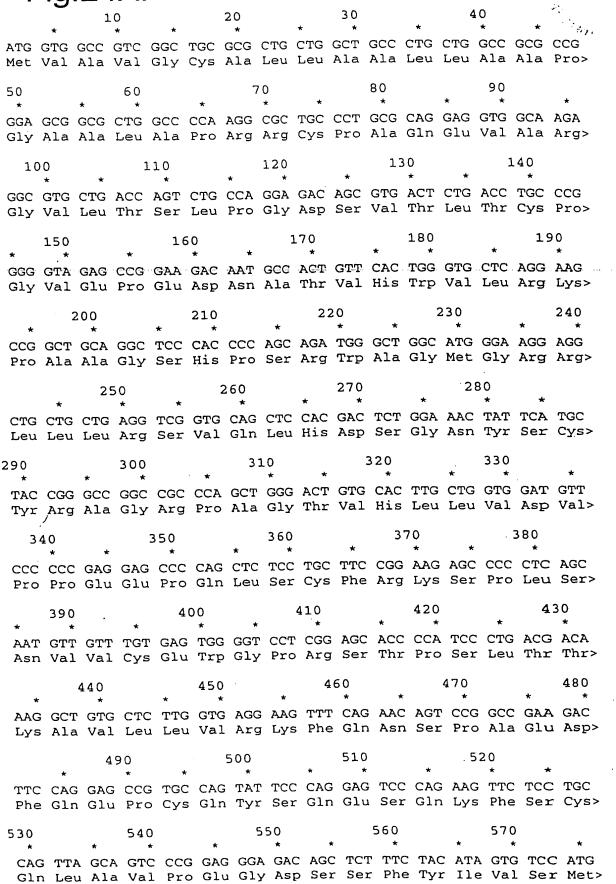
Fig.23D.



Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING AND SING

Inventor: STAHL, et al. Docket No.: REG 203-A

Fig.24A.



Title: RECEPTOR BASED ANTAGONISTS JD METHODS OF MAKING AND WAY Inventor: STAHL, et al. Docket No.: REG 203-A

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Fig.24B.	29/59		Ę	
580 590	600	610	620 °	÷, **:
TGC GTC GCC AGT AGT GTC Cys Val Ala Ser Ser Val	CCC ACC AAG	TTC AGC AAA	ACT CAA ACC Thr Gln Thr	TTT Phe> 174
630 640	650	660	67	
<pre># * * * CAG GGT TGT GGA ATC TTG Gln Gly Cys Gly Ile Leu</pre>	CAG CCT GAT G	CCG CCT GCC Pro Pro Ala	AAC ATC ACA Asn Ile Thr	GTC Val>
680 690	70	_	10	720
* * * * * * ACT GCC GTG GCC AGA AAC	* CCC CGC TGG	* * CTC AGT GTC	* * ACC TGG CAA	* GAC
Thr Ala Val Ala Arg Asn	Pro Arg Trp	Leu Ser Val	Thr Trp Gln	Asp>
730	740	750	760 * *	
CCC CAC TCC TGG AAC TCA	TCT TTC TAC	AGA CTA CGG	TTT GAG CTC	AGA
Pro His Ser Trp Asn Ser			810	, Arg
770 780	790 * *	800	* *	*
TAT CGG GCT GAA CGG TCA Tyr Arg Ala Glu Arg Ser	AAG ACA TTC Lys Thr Phe	ACA ACA TGG Thr Thr Trp	Met Val Lys	GAC Asp>
820 830	840	850 * *	860 * *	
CTC CAG CAT CAC TGT GTC Leu Gln His His Cys Val	ATC CAC GAC	GCC TGG AGC Ala Trp Ser	GGC CTG AGG Gly Leu Arg	CAC His>
870 880	890	900	9	10
* * * * * * GTG GTG CAG CTT CGT GCC	* * CAG GAG GAG	TTC GGG CAA	GGC GAG TGG	AGC
Val Val Gln Leu Arg Ala	a Gln Glu Glu	Phe Gly Gln	Gly Glu Trp	ser>
	. 0/			960
920 . 930	*	* *	950 * *	*
* * * * *	* * TG GGC ACG	* * CCT TGG ACA	* * GAA TCC AGG	* G AGT
* * * * GAG TGG AGC CCG GAG GCC	* C ATG GGC ACG A Met Gly Thr	* * CCT TGG ACA Pro Trp Thr	* * GAA TCC AGG	* G AGT
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala	* C ATG GGC ACG A Met Gly Thr 980 *	* * CCT TGG ACA Pro Trp Thr 990 * *	* * * GAA TCC AGG Glu Ser Arg	* G AGT J Ser>
* * * * GAG TGG AGC CCG GAG GCC	ATG GGC ACG Met Gly Thr 980 * GGG TCC ACC	* * CCT TGG ACA Pro Trp Thr 990 * CCC ATG ACC	* * * GAA TCC AGG Glu Ser Arg 1000	* G AGT J Ser> G CCT
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 * * * * CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu	ATG GGC ACG AMET Gly Thr 980 * GGTG TCC ACC Val Ser Thr 1030	* * CCT TGG ACA Pro Trp Thr 990	* * * GAA TCC AGG Glu Ser Arg	* G AGT J Ser> G CCT
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 * * * CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glo	A CTT CTA GAC	CCT TGG ACA Pro Trp Thr 990 * * CCC ATG ACC Pro Met Thr 1040 * CCA TGT GGT	* * * GAA TCC AGG Glu Ser Arg 1000 * * * GGT GGC GCG Gly Gly Ala 1050 * * TAT ATC AGG	* G AGT g Ser> G CCT A Pro> * T CCT
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 * * * * CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu 1010 1020 * * * TCA GGT GCT CAG CTG GA Ser Gly Ala Gln Leu Gl	A CTT CTA GAC	CCT TGG ACA Pro Trp Thr 990 * * CCC ATG ACC Pro Met Thr 1040 * CCA TGT GGT	* * * GAA TCC AGG Glu Ser Arg 1000 * * * GGT GGC GCG Gly Gly Ala 1050 * * TAT ATC AGG Tyr Ile Ser	* G AGT g Ser> G CCT A Pro> * T CCT
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 * * * * CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu 1010 1020 * * * TCA GGT GCT CAG CTG GA Ser Gly Ala Gln Leu Gl 1060 1070 * * * ** ** ** ** ** ** ** **	ATG GGC ACG AMET Gly Thr 980 * GGTG TCC ACC Val Ser Thr 1030 * A CTT CTA GAC Leu Leu Asp 1080 * A CTT CAT TCT	* * CCT TGG ACA Pro Trp Thr 990 * * CCC ATG ACC Pro Met Thr 1040 * CCA TGT GGT Pro Cys Gly 1090 * AAT TTC ACT	* * * GAA TCC AGG Glu Ser Arg 1000 * * * GGT GGC GCG Gly Gly Ala 1050 * * TAT ATC AGG Tyr Ile Ser 1100 * GCA GTT TGG	* G AGT J Ser> G CCT A Pro> * T CCT r Pro>
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu 1010 1020 * TCA GGT GCT CAG CTG GA Ser Gly Ala Gln Leu Gl 1060 1070 GAA TCT CCA GTT GTA CA Glu Ser Pro Val Val Gl	ATG GGC ACG AMET Gly Thr 980 * GGTG TCC ACC Val Ser Thr 1030 * A CTT CTA GAC Leu Leu Asp 1080 * A CTT CAT TCT	* * CCT TGG ACA Pro Trp Thr 990 * * CCC ATG ACC Pro Met Thr 1040 * CCA TGT GGT Pro Cys Gly 1090 * AAT TTC ACT	* * * GAA TCC AGG Glu Ser Arg 1000	* G AGT J Ser> G CCT A Pro> * T CCT r Pro>
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 * * * * CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu 1010 1020 * * * TCA GGT GCT CAG CTG GA Ser Gly Ala Gln Leu Gl 1060 1070 * * * GAA TCT CCA GTT GTA CA Glu Ser Pro Val Val Gl	ATG GGC ACG Met Gly Thr 980 * * GGTG TCC ACC Val Ser Thr 1030 * * A CTT CTA GAC U Leu Leu Asp 1080 * A CTT CAT TCT n Leu His Ser 1130 * *	CCT TGG ACA Pro Trp Thr 990 * CCC ATG ACC Pro Met Thr 1040 CCA TGT GGT Pro Cys Gly 1090 * AAT TTC ACT Asn Phe Thr	GAA TCC AGG Glu Ser Arg 1000 * GGT GGC GCG Gly Gly Ala 1050 * TAT ATC AGG Tyr Ile Ser 1100 * GCA GTT TGG Ala Val Cys	* G AGT J Ser> G CCT A Pro> * T CCT T Pro> T GTG S Val> 150 *
GAG TGG AGC CCG GAG GCC Glu Trp Ser Pro Glu Ala 970 CCT CCA GCT GAG AAC GAC Pro Pro Ala Glu Asn Glu 1010 1020 * TCA GGT GCT CAG CTG GA Ser Gly Ala Gln Leu Gl 1060 1070 GAA TCT CCA GTT GTA CA Glu Ser Pro Val Val Gl	ATG GGC ACG Met Gly Thr 980 * GGTG TCC ACC Val Ser Thr 1030 * A CTT CTA GAC Leu Leu Asp 1080 * A CTT CAT TCT n Leu His Ser 1130 * GGAT TAT TTT	CCT TGG ACA Pro Trp Thr 990 * CCC ATG ACC Pro Met Thr 1040 CCA TGT GGT Pro Cys Gly 1090 * AAT TTC ACT Asn Phe Thr 1140 * CAT GTA AAT	GAA TCC AGG Glu Ser Arg 1000 * GGT GGC GCG Gly Gly Ala 1050 * TAT ATC AGG Tyr Ile Ser 1100 * GCA GTT TGG Ala Val Cy:	* G AGT J Ser> G CCT A Pro> * T CCT T Pro> T GTG S Val> 150 * C ATT

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Fig.24C.

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GTC TGG AAA ACA AAC CAT TTT ACT ATT CCT AAG GAG CAA TAT ACT; ATC Val Trp Lys Thr Asn His Phe Thr Ile Pro Lys Glu Gln Tyr Thrisle> 1210 1220 1230 1240 ATA AAC AGA ACA GCA TCC AGT GTC ACC TTT ACA GAT ATA GCT TCA TTA Ile Asn Arg Thr Ala Ser Ser Val Thr Phe Thr Asp Ile Ala Ser Leu> 1260 1270 1280 * * * * * * AAT ATT CAG CTC ACT TGC AAC ATT CTT ACA TTC GGA CAG CTT GAA CAG Asn Ile Gln Leu Thr Cys Asn Ile Leu Thr Phe Gly Gln Leu Glu Gln> 1320 1330 1340 1310 1300 AAT GTT TAT GGA ATC ACA ATA ATT TCA GGC TTG CCT CCA GAA AAA CCT Asn Val Tyr Gly Ile Thr Ile Ile Ser Gly Leu Pro Pro Glu Lys Pro> 1350 1360 1370 1380 1390 AAA AAT TTG AGT TGC ATT GTG AAC GAG GGG AAG AAA ATG AGG TGT GAG Lys Asn Leu Ser Cys Ile Val Asn Glu Gly Lys Lys Met Arg Cys Glu> 1410 1420 1430 * * * * * * TGG GAT GGT GGA AGG GAA ACA CAC TTG GAG ACA AAC TTC ACT TTA AAA Trp Asp Gly Gly Arg Glu Thr His Leu Glu Thr Asn Phe Thr Leu Lys> 1470 * * 1460 * * 1450 TCT GAA TGG GCA ACA CAC AAG TTT GCT GAT TGC AAA GCA AAA CGT GAC Ser Glu Trp Ala Thr His Lys Phe Ala Asp Cys Lys Ala Lys Arg Asp> 1510 1520 1530 * * * * * * * ACC CCC ACC TCA TGC ACT GTT GAT TAT TCT ACT GTG TAT TTT GTC AAC Thr Pro Thr Ser Cys Thr Val Asp Tyr Ser Thr Val Tyr Phe Val Asn> 1570 1560 ATT GAA GTC TGG GTA GAA GCA GAG AAT GCC CTT GGG AAG GTT ACA TCA Ile Glu Val Trp Val Glu Ala Glu Asn Ala Leu Gly Lys Val Thr Ser> 1620 1610 1600 GAT CAT ATC AAT TTT GAT CCT GTA TAT AAA GTG AAG CCC AAT CCG CCA Asp His Ile Asn Phe Asp Pro Val Tyr Lys Val Lys Pro Asn Pro Pro> 1660 * * 1670 1680 1650 CAT AAT TTA TCA GTG ATC AAC TCA GAG GAA CTG TCT AGT ATC TTA AAA His Asn Leu Ser Val Ile Asn Ser Glu Glu Leu Ser Ser Ile Leu Lys> 1710 1700 TTG ACA TGG ACC AAC CCA AGT ATT AAG AGT GTT ATA ATA CTA AAA TAT Leu Thr Trp Thr Asn Pro Ser Ile Lys Ser Val Ile Ile Leu Lys Tyr> 1730 1740 AAC ATT CAA TAT AGG ACC AAA GAT GCC TCA ACT TGG AGC CAG ATT CCT

Asn Ile Gln Tyr Arg Thr Lys Asp Ala Ser Thr Trp Ser Gln Ile Pro>

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Fig 24D

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Ī	-Ig	.24	4U				91,5							,	
178	_	*	17			1	800		*	181	0 *	*	18	20 -	√
CCT Pro	GAA Glu	GAC Asp	ACA Thr	GCA Ala	TCC Ser	ACC Thr	CGA Arg	TCT Ser	TCA Ser	TTC Phe	ACT Thr	GTC Val	CAA Gln	GAC Asp	CTT Leu>
* 1	830		÷	184	0	*	18	50 *		, 1 *	860		*	187	0 *
AAA	CCT Pro	TTT Phe	ACA Thr	GAA Glu	TAT	GTG Val	TTT Phe	AGG Arg	ATT Ile	CGC Arg	TGT Cys	ATG Met	AAG Lys	GAA Glu	GAT Asp>
	18	80		. 1	890		*	190	0 *	*	19	10		, 1 *	920
GGT Gly	AAG Lys	GGA Gly	TAC Tyr	TGG	AGT	GAC Asp	TGG	AGT Ser	GAA Glu	GAA Glu	GCA Ala	AGT Ser	GGG Gly	ATC Ile	ACC Thr>
		193	0	*	19	40		* 1	950		*	196	50 *	*	
TAT Tyr	GAA Glu	GAT Asp	AGA Arg	CCA	TCT Ser	AAA	GCA Ala	CCA Pro	AGT Ser	TTC Phe	TGG Trp	TAT Tyr	AAA Lys	ATA Ile	GAT Asp>
1970		_ 1	980		*	199	90 *	*	20	000		* 2	2010		*
CCA	TCC Ser	CAT His	ACT Thr	CAA Gln	GGC Gly	TAC Tyr	AGA Arg	ACT Thr	GTA Val	CAA Gln	CTC Leu	GTG Val	TGG Trp	AAG Lys	ACA Thr>
202	20	*	20	30		*	2040		*	209	50 *	*	20	060 *	
TTG Leu	CCT Pro	CCT Pro	TTT Phe	GAA Glu	GCC Ala	AAT Asn	GGA Gly	AAA Lys	ATC Ile	TTG Leu	GAT Asp	TAT Tyr	GAA Glu	GTG Val	ACT Thr>
:	2070			208	30	*	20	090		*	2100		*	211	*
* CTC	* ACA	AGA Arg	* TGG Trp	AAA	* TCA	* CAT His	TTA	* CAA	AAT Asn	* TAC	* ACA	GTT Val	* AAT Asn	GCC	LO * ACA Thr>
* CTC	* ACA Thr	AGA Arg 120	* TGG Trp	AAA Lys	* TCA	* CAT His	TTA	* CAA	Asn	* TAC	* ACA Thr	GTT Val 150	* AAT Asn	GCC Ala	* ACA
* CTC Leu *	ACA Thr	Arg 120 *	Trp	AAA Lys *	* TCA Ser 2130 * CTC	His ACA	TTA Leu * AAT	* CAA Gln 21 GAT	Asn 40 * CGC	* TAC Tyr * TAT	ACA Thr 2:	Val 150 * GCA	Asn	GCC Ala *	* ACA Thr>
* CTC Leu *	ACA Thr	Arg 120 *	Trp GTA Val	AAA Lys *	TCA Ser 2130 * CTC Leu	His ACA	TTA Leu * AAT	* CAA Gln 21 GAT Asp	Asn 40 * CGC	* TAC Tyr * TAT Tyr	ACA Thr 2:	Val 150 * GCA	Asn ACC Thr	GCC Ala *	* ACA Thr> 2160 * ACA
* CTC Leu * AAA Lys	* ACA Thr 2 CTG Leu *	Arg 120 ACA Thr 21	Trp GTA Val 70 *	AAA Lys * AAT Asn	* TCA Ser 2130 * CTC Leu 2: GGC	ACA Thr 180	TTA Leu * AAT Asn	* CAA Gln 21 GAT Asp * GAT	Asn 40 * CGC Arg 2190 *	* TAC Tyr * TAT Tyr	* ACA Thr 2: CTA Leu * GTT	Val 150 * GCA Ala 22 TTA	ASN ACC Thr 00 *	GCC Ala * CTA Leu *	* ACA Thr> 2160 * ACA
* CTC Leu * AAA Lys GTA Val	* ACA Thr 2 CTG Leu *	Arg 120 ACA Thr 21	Trp GTA Val 70 *	AAA Lys * AAT Asn * GTT Val	* TCA Ser 2130 * CTC Leu 2: GGC	ACA Thr 180 * AAA Lys	TTA Leu * AAT Asn	* CAA Gln 21 GAT Asp * GAT	Asn 40 CGC Arg 2190 CGA Ala	* TAC Tyr * TAT Tyr	* ACA Thr 2: CTA Leu * GTT	Val 150 * GCA Ala 22 TTA Leu	ASN ACC Thr 00 *	GCC Ala * CTA Leu *	ACA Thr> 2160 * ACA Thr>
CTC Leu * AAA Lys GTA Val 2210 *	* ACA Thr 2 CTG Leu * AGA Arg	Arg 120 * ACA Thr 21 AAT Asn	Trp GTA Val 70 * CTT Leu 2220 * TTT	AAA Lys * AAT Asn * GTT Val	TCA Ser 2130 * CTC Leu 2: GGC Gly *	ACA Thr 180 * AAA Lys 22 ACT	TTA Leu * AAT Asn TCA Ser 30 * CAC	* CAA Gln 21 GAT Asp * GAT Asp CCT	Asn 40 CGC Arg 2190 CA Ala GTA	TAC Tyr TAT Tyr GCT Ala 240 * ATG	* ACA Thr 2: CTA Leu * GTT Val	Val 150 CCA Ala 22 TTA Leu CTT	ASN ACC Thr 00 * ACT Thr 2250 * AAA	GCC Ala * CTA Leu * ATC Ile	ACA Thr> 2160 * ACA Thr>
CTC Leu * AAA Lys GTA Val 2210 * GCC Ala	* ACA Thr 2 CTG Leu * AGA Arg	Arg 120 * ACA Thr 21 AAT Asn	GTA Val 70 * CTT Leu 2220 * TTT Phe	AAA Lys * AAT Asn * GTT Val	TCA Ser 2130 * CTC Leu 2: GGC Gly *	ACA Thr 180 * AAA Lys 22 ACT	TTA Leu * AAT Asn TCA Ser 30 * CAC	* CAA Gln 21 GAT Asp * GAT Asp CCT Pro	Asn 40 CGC Arg 2190 CA Ala GTA	* TAC Tyr * TAT Tyr GCT Ala 240 * ATG	* ACA Thr 2: CTA Leu * GTT Val	Val 150 CCA Ala 22 TTA Leu CTT	ASN ACC Thr 00 * ACT Thr 2250 * AAA Lys	GCC Ala * CTA Leu * ATC Ile	ACA Thr> 2160 ACA Thr> CCT Pro>
CTC Leu AAA Lys GTA Val 2210 GCC Ala 22	* ACA Thr 2 CTG Leu * AGA Arg TGT Cys	Arg 120 * ACA Thr 21 AAT Asn * GAC GAC	Trp GTA Val 70 * CTT Leu 2220 * TTT Phe	AAA Lys * AAT Asn * GTT Val * CAA * GIn	TCA Ser 2130 CTC Leu 2: GGC Gly * GCT Ala	ACA Thr 180 AAA Lys 22 ACT Thr	TTA Leu * AAT Asn TCA Ser 30 * CAC His	* CAA Gln 21 GAT Asp * GAT Pro	Asn 40 * CGC Arg 2190 * GCA Ala 2 GTA Val	* TAC Tyr * TAT Tyr GCT Ala 240 * ATG Met	ACA Thr 2: CTA Leu * GTT Val GAT ASP 90 * ACT	Val 150 CCA Ala 22 TTA Leu CTT Leu	ASn ACC Thr 00 * ACT Thr 2250 * AAA Lys	GCC Ala * CTA Leu * ATC Ile GCA Ala 300 * GAA	ACA Thr> 2160 ACA Thr> CCT Pro>
CTC Leu AAA Lys GTA Val 2210 * GCC Ala 22 CCC Pro	* ACA Thr 2 CTG Leu * AGA Arg Cys 60 * AAA D Lys	Arg 120 * ACA Thr 21 AAT Asn * GAC Asp	Trp GTA Val 70 * CTT Leu 2220 * TTT Phe	AAA Lys * AAT Asn Val	TCA Ser 2130 CTC Leu 2: GGC Gly * GCT Ala	ACA Thr 180 AAA Lys 22 ACT Thr	TTA Leu * AAT Asn TCA Ser 30 * CAC His	* CAA Gln 21 GAT Asp * GAT Pro	Asn 40 * CGC Arg 2190 * GCA Ala 2 GTA Val	* TAC Tyr * TAT Tyr GCT Ala 240 * ATG Met	ACA Thr 2: CTA Leu * GTT Val GAT ASP 90 * ACT	Val 150 CCA Ala 22 TTA Leu * CTT Leu * CCA Pro	ASn ACC Thr 00 * ACT Thr 2250 * AAA Lys	GCC Ala * CTA Leu * ATC Ile GCA Ala 300 GAA GOLU	ACA Thr> 2160 ACA Thr> CCT Pro> * TTC Phe>
* CTC Leu * AAA Lys GTA Val 2210 * GCC Ala 22 CCC Pro	* ACA Thr 2 CTG Leu * AGA Arg CYS 60 * AAA Lys 2310	Arg 120 * ACA Thr 21 AAT Asn * GAC Asp	GTA Val 70 * CTT Leu 2220 * TTT Phe 2 AAC AST	AAA Lys * AAT Asn * GTT Val * CAA GIN * CAA GIN 270 ATA ATA	* TCA Ser 2130 * CTC Leu 2: GGC Gly * CTT Ala : CTT Leu 20 *	ACA Thr 180 * AAA Lys 22 ACT Thr * TGC	TTA Leu * AAT Asn TCA Ser 30 * CAC His 2280 Val	CAA Gln 21 GAT Asp * GAT Asp CCT Pro GAA 330 * TGT	Asn 40 * CGC Arg 2190 * GCA Ala 2 GTA Val * TGC	* TAC Tyr * TAT Tyr GCT Ala 240 * ATG Met 22 GACT Thr	ACA Thr 2: CTA Leu * GTT Val GAT ASP 90 ACT Thr 2340 * TCA	Val 150 CAA Ala 22 TTA Leu * CTT Leu * CCA Pro	ASN ACC Thr 00 * ACT Thr 2250 * AAA Lys AGG Arg	GCC Ala * CTA Leu * ATC Ile GCA Ala 300 * GAA GOA GCA	ACA Thr> 2160 * ACA Thr> CCT Pro> * TTC Phe>

Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND TOTAL

Aventor: STAHL, et al. Docket No.: REG 203-A

32/59 Fig.24E. TGT ATC ACA GAC TGG CAA CAA GAA GAT GGT ACC GTG CAT CGC ACC TAT Cys Ile Thr Asp Trp Gln Gln Glu Asp Gly Thr Val His Arg Thr Tyr> 2430 . 2410 2420 TTA AGA GGG AAC TTA GCA GAG AGC AAA TGC TAT TTG ATA ACA GTT ACT Leu Arg Gly Asn Leu Ala Glu Ser Lys Cys Tyr Leu Ile Thr Val Thr> 2480 2490 2450 2460 2470 CCA GTA TAT GCT GAT GGA CCA GGA AGC CCT GAA TCC ATA AAG GCA TAC Pro Val Tyr Ala Asp Gly Pro Gly Ser Pro Glu Ser Ile Lys Ala Tyr> 2520 2530 2510 CTT AAA CAA GCT CCA CCT TCC AAA GGA CCT ACT GTT CGG ACA AAA AAA Leu Lys Gln Ala Pro Pro Ser Lys Gly Pro Thr Val Arg Thr Lys Lys> 2580 2570 2560 GTA GGG AAA AAC GAA GCT GTC TTA GAG TGG GAC CAA CTT CCT GTT GAT Val Gly Lys Asn Glu Ala Val Leu Glu Trp Asp Gln Leu Pro Val Asp> 2620 2630 2600 2610 GTT CAG AAT GGA TTT ATC AGA AAT TAT ACT ATA TTT TAT AGA ACC ATC Val Gln Asn Gly Phe Ile Arg Asn Tyr Thr Ile Phe Tyr Arg Thr Ile> 2670 2660 ATT GGA AAT GAA ACT GCT GTG AAT GTG GAT TCT TCC CAC ACA GAA TAT Ile Gly Asn Glu Thr Ala Val Asn Val Asp Ser Ser His Thr Glu Tyr> 2720 2730 2710 2690 2700 ACA TTG TCC TCT TTG ACT AGT GAC ACA TTG TAC ATG GTA CGA ATG GCA Thr Leu Ser Ser Leu Thr Ser Asp Thr Leu Tyr Met Val Arg Met Ala> 2770 2750 2760 GCA TAC ACA GAT GAA GGT GGG AAG GAT GGT CCA GAA TTC ACT TTT ACT Ala Tyr Thr Asp Glu Gly Gly Lys Asp Gly Pro Glu Phe Thr Phe Thr> 2810 2820 2800 ACC CCA AAG TTT GCT CAA GGA GAA ATT GAA TCC GGG GGC GAC AAA ACT Thr Pro Lys Phe Ala Gln Gly Glu Ile Glu Ser Gly Gly Asp Lys Thr> 2860 2850 CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser> 2910 2900 2890 GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg> 2960 2950 2930 2940

ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCT

Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING AND SING Inventor: STAHL, et al. Docket No.: REG 203-A

Fig 24F

F	-ig	.24	1⊢.				٥.	7/ 23							
	_			Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro>
298	10 *	*	29	90		* 3	000		*	301	0 *	*	30	20	
GAG Glu	GTC Val	AAG Lys	TTC Phe	AAC Asn	TGG Trp	TAC Tyr	GTG Val	GAC Asp	GGC Gly	GTG Val	GAG Glu	GTG Val	CAT His	AAT Asn	GCC Ala>
*	030		*	304	0	*	3 0	50		* 3	060		*	307	*
AAG Lys	ACA Thr	AAG Lys	CCG Pro	CGG Arg	GAG Glu	GAG Glu	CAG Gln	TAC Tyr	AAC Asn	AGC Ser	ACG Thr	TAC Tyr	CGT Arg	GTG Val	GTC Val>
*	3 (080		* 3	090			310) O *	*	3 1	.10		*	120
AGC	GTC Val	CTC	ACC Thr	GTC	CTG	CAC His	CAG Gln	GAC Asp	TGG Trp	CTG Leu	AAT Asn	GGC Gly	AAG Lys	GAG Glu	TAC Tyr>
	 *	313	3·O ·	*	31	40			3150		 *	316	50	 , *	
AAG Lys	TGC Cys	AAG Lys	GTC Val	TCC Ser	AAC Asn	AAA Lys	GCC Ala	CTC Leu	CCA Pro	GCC Ala	CCC Pro	ATC Ile	GAG Glu	AAA Lys	ACC Thr>
3170		*	3180		*	319	90	*	32	200		*	3210		*
ATC Ile	TCC	AAA	GCC	AAA Lys	GGG Gly	CAG Gln	CCC Pro	CGA Arg	GAA Glu	CCA Pro	CAG Gln	GTG Val	TAC Tyr	ACC Thr	CTG Leu>
32:	20	*	32	230		*	3240		*	325	50 *	*	32	260 *	
CCC Pro	CCA	TCC Ser	CGG Arg	GAT Asp	GAG Glu	CTG Leu	ACC Thr	AAG Lys	AAC Asn	CAG Gln	GTC Val	AGC Ser	CTG Leu	ACC Thr	TGC Cys>
*	3270		*	328	30	*	3	290		*	3300		*	33	10
CTG	GTC Val	AAA Lys	GGC	TTC Phe	TAT	ccc	AGC Ser	GAC	ATC Ile	GCC	GTG Val	GAG Glu	TGG Trp	GAG Glu	AGC Ser>
*	3	320		*	3330		*	33	40	*	3	350		*	3360
AAT Asn	GGG Gly	CAG Gln	CCG Pro	GAG	AAC Asn	AAC Asn	TAC Tyr	AAG Lys	ACC Thr	ACG Thr	CCT Pro	CCC Pro	GTG Val	CTG Leu	GAC Asp>
		33	70	*	3	380		*	3390		*	34	00	*	
TCC Ser	GAC Asp	GGC Gly	TCC Ser	TTC Phe	TTC Phe	CTC Leu	TAC Tyr	AGC Ser	AAG Lys	CTC Leu	ACC Thr	GTG Val	GAC Asp	AAG Lys	AGC Ser>
3410		*	3420		*	34	30	*		440		*	3450		*
AGG	TGC	CAG	CAG	GGG	AAC	GTC Val	TTC Phe	TCA	TGC	TCC	GTG Val	ATG Met	CAT His	GAG Glu	GCT Ala>
34	60	*	3	470		*	3480	ı	*	34	90	*	3	500	
CTC Lev	CAC His	C AAC s Asr	CAC h His	TAC Tyr	ACG Thr	CAG Glr	AAC Lys	AGC Ser	CTC Lev	TCC Ser	CTG Leu	TCT Ser	CCG Pro	GI7	T AAA / Lys>
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Fig 25A

		31,733								and the second						
	Fig.25A.							*	30 * *				0 *	****		
ATG Met	GTG (GCC Ala	GTC Val	GGC Gly	TGC Cys	GCG Ala	CTG Leu	CTG Leu	GCT Ala	GCC Ala	CTG Leu	CTG Leu	GCC Ala	GCG Ala	CCG Pro>	
50 *		•	60 *		*	7	0	*		80 *		*	90 *		*	
GGA	GCG Ala	GCG Ala	CTG	GCC Ala	CCA Pro	AGG Arg	CGC Arg	TGC Cys	CCT Pro	GCG Ala	CAG Gln	GAG Glu	GTG Val	GCA Ala	AGA Arg>	
10	0 *	*	1	.10		*	120		*	13	* O	*	1	40		
GGC	GTG Val	CTG Leu	ACC Thr	AGT Ser	CTG Leu	CCA Pro	GGA Gly	GAC Asp	AGC Ser	GTG Val	ACT Thr	CTG Leu	ACC Thr	TGC Cys	CCG Pro>	
*	150		*	16	50 *	*	1	.70 *		*	180		*	19	*	
GGG Gly	GTA Val	GAG Glu	CCG Pro	GAA Glu	GAC Asp	AAT Asn	GGC Ala	ACT Thr	GTT Val	CAC	TGG Trp	GTG Val	CTC	AGG Arg	AAG Lys>	
*	2	00		*	210		*	22	0 ×	*	. :	230		*	240	
CCG Pro	GCT Ala	GCA Ala	GGC Gly	TCC Ser	CAC His	CCC Pro	AGC Ser	AGA Arg	TGG Trp	GCT Ala	GGC	ATG Met	GGA Gly	AGG Arg	AGG Arg>	
	250				- 2	260 *		*	270 *		*	280				
CTG Leu	CTG Leu	CTG Leu	AGG Arg	TCG Ser	GTG Val	CAG Gln	CTC Leu	CAC His	GAC Asp	TCT Ser	GGA Gly	AAC Asn	TAT Tyr	TCA Ser	TGC Cys>	
290		*	300		*	3	10	. *		320		*	330 *		*	
TAC Tyr	CGG Arg	GCC Ala	GGC Gly	CGC Arg	CCA Pro	GCT Ala	GGG Gly	ACT Thr	GTG Val	CAC His	TTG Leu	CTG Leu	GTG Val	GAT Asp	GTT Val>	
3	40 *	*		350		*	360 *		*	3	70 *	*		380 *		
CCC Pro	CCC Pro	GAG Glu	GAG Glu	CCC	CAG Gln	CTC Leu	TCC Ser	TGC Cys	TTC Phe	CGG Arg	AAG Lys	AGC Ser	CCC	CTC Leu	AGC Ser>	
*	390		*	4	00	*		410 *		*	420 *		*	4	30 *	
יחעע	CTT	GTT Val	TGT Cys	GAG Glu	TGG Trp	GGT Gly	CCT Pro	CGG Arg	AGC Ser	ACC Thr	CCA Pro	TCC Ser	CTG	ACG Thr	ACA Thr>	
*	,	440		*	450 *		*	4	60	*		470 *1		*	480 *	
AAG Lys	GCT Ala	GTC Val	CTC L Lev	TTC Lev	GTG Val	AGG Arg	AAC Lys	TTT Phe	CAG Glr	AAC Asr	AGT Ser	CCG Pro	GCC Ala	GAA Glu	GAC Asp>	
	*	4	190 *		r	500		*	510)	*	5	20 *	,	r	
TTC Phe	CAG Glr	GAC	G CCC	TGC Cys	C CAC	TAT LYL	TCC Sea	CAC Glr	G GAC	TCC Sei	CAC Glr	AAC n Lys	TTC Phe	TCC Sea	TGC Cys>	
530 *		*	54	*	*		550 *	. ,	*	560 *		*	570	*	*	
CAC Glr	TTA Lev	A GC.	A GTO	C CCC	G GAG	G GG/ L Gly	A GAG	C AGO p Se:	TC' r Se:	r TTO	TAC ≘ Ty:	C ATA	A GTO	TC(C ATG r Met>	

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. 58	-	ے۔ ر <u>ہ</u>		90			600			61	0		6	20	د		
TGC Cys	* GTC Val	GCC Ala	AGT Ser	* AGT Ser	GTC (* GGG . Gly	AGC Ser	AAG Lys	TTC Phe	AGC Ser	AAA Lys	ACT Thr	CAA Gln	ACC Thr	TTT Phe>		
	630			64	0		6	50			660			67			
* CAG	* GGT	тст	* · GGA	ATC	* TTG (* CAĠ	ССТ	* GAT	CCG	* CCT	GCC	AAC	* ATC	ACA	* GTC		
Gln	Gly	Суѕ	Gly	Ile	Leu	Gln	Pro	Asp	Pro	Pro	Ala	Asn	Ile	Thr	Val>		
*	€	80		*	690		*	70	0 *	*	7	10 *		*	720 *		
ACT	GCC	GTG	GCC	AGA	AAC	CCC	CGC	TGG	CTC	AGT	GTC	ACC	TGG	CAA	GAC		
Thr	Ala	Val	Ala	Arg			Arg	Trp		ser	vai			Gln	Asp>		
	*	73	*	*		40 *		*	750 *		*	76	*	*			
CCC	CAC His	TCC	TGG Trp	AAC Asn	TCA Ser	TCT Ser	TTC Phe	TAC Tyr	AGA Arg	CTA Leu	CGG Arg	TTT Phe	GAG Glu	CTC Leu	AGA Arg>		
770			780	٠		79				300			810				
* ጥልጥ	CGG	* ССТ	*	CGG	* ጥርል	AAG	* ACA	* TTC	ACA	* ACA	TGG	* ATG	* GTC	AAG	* GAC		
Tyr	Arg	Ala	Glu	Arg	Ser	Lys	Thr	Phe	Thr	Thr	Trp	Met	Val	Lys	Asp>		
82	20		1	830			840		*			50 8			360 ★		
CTC	* CAG	CAT	CAC	TGT	GTC	ATC	CAC	GAC	GCC	TGG	AGC	GGC	CTG	AGG	CAC		
Leu		His	His			Ile			Ala	Trp		GIĀ	ьeu		His>		
*	870 *		*		30 *	*		890 *		*	900		*		*		
GTG Val	GTG Val	CAG Gln	CTT Leu	CGT Arg	GCC Ala	CAG Gln	GAG Glu	GAG Glu	TTC Phe	GGG Gly	CAA Gln	GGC Gly	GAG Glu	TGG Trp	AGC Ser>		
		920			930				40			950			960		
* GAG	TGG	* AGC	CCG	* GAG	* GCC	ATG	* GGC	ACG	* CCT	TGG	ACA	* GAA	TCG	* CGA	TCG		
Glu	Trp	Ser	Pro	Glu	Ala	Met	Gly	Thr	Pro	Trp	Thr	Glu	Ser	Arg	Ser>		
	*	9	70	*	9	980 *		*	990 *		*	10	00 *	*			
CCT	CCA	GCT	GAG	AAC	GAG	GTG	TCC	ACC	CCC	ATG	GAA	CTT	CTA	GAC	CCA Pro>		
	PIC) Ala			Gru	10		1111		040	010		1050				
1010		*	1020		*		*	*		*		*	*		* >>0		
TGT Cys	Gl;	TAT Y	TATC	AGT Ser	CCT Pro	GAA Glu	TCT Ser	CCA Pro	Val	Val	. Gln	Leu Leu	His	Ser	TAA Asn>		
10	60		. 1	.070		*	1080		*	10	90	*		.100			
TTC	* C ACT	r GCA	A GTT	r TGT	GTG	СТА	AAC	GAA	AAA A	TGT	ATC	GAT	TAT	r TTT	CAT		
Phe	e Thi	r Ala	a Val	l Cys	: Val	Leu			л гуз	су:			л.Ад		His>		
*	1110	*	*		.20	*	. ,	130		*	1140	k .	*		.50		
GT/ Va	A AA' l Ası	r GC'	AA T a Ası	т ТАС 1. ТУ1	ATT	GTC Val	TGC Tr	AAA E D	A ACA	AAA Ası	CAT h His	r TT1 s Phe	r AC: e Thi	r ATT	CCT Pro>		
		1160		_	1170				180			1190			1200		

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Fig.25C.

i	19	. 2		•										`-	
AAG G Lys G	AG (CAA ' Gln '	TAT . Tyr	ACT I	ATC I	ATA A	AAC Asn	AGA Arg	ACA Thr	GCA Ala	TCC Ser	AGT Ser	GTC Val	ACC'	TTT Phe>
		121	0		12:				230			124	.0		
ACA G Thr A	* AT / Sp :	ATA (* GCT Ala	* TCA ' Ser	TTA . Leu .	* AAT . Asn	ATT Ile	* CAG Gln	* CTC Leu	ACT Thr	* TGC Cys	AAC Asn	* ATT Ile	CTT Leu	ACA Thr>
1250		. 1	260			127	0	*	12	80		1	.290		*
TTC G Phe G	GA (CAG	CTT Leu	GAA Glu	CAG Gln	TAA	GTT	TAT Tyr	GGA Gly	ATC Ile	ACA Thr	ATA Ile	ATT Ile	TCA Ser	GGC Gly>
1300		*	13	10		1	320		*	133	*	*	13	340	
TTG C Leu F	CCT Pro	CCA Pro	GAA Glu	AAA Lys	CCT Pro	AAA Lys	AAT Asn	TTG Leu	AGT Ser	TGC Cys	ATT Ile	GTG Val	AAC Asn	GAG Glu	GGG Gly>
13	350			136	0		13	370			1380			13	90
* AAG A Lys I	* AAA Lys	ATG Met	* AGG Arg	TGT Cys	* GAG Glu	TGG Trp	GAT Asp	GGT	GGA	AGG	GAA	ACA	CAC	TTG	
	14	00		1	410			142			14	130			1440
* ACA / Thr /	AAC Asn	* TTC Phe	ACT Thr	* TTA Leu	* AAA Lys	TCT Ser	* GAA Glu	TGG Trp	* GCA Ala	* ACA Thr	CAC His	* AAG Lys	ТТТ Phe	* GCT Ala	* GAT Asp>
		145	50		14	160		;	1470			14	80		
ጥርር	* AAA	GCA	* AAA	* CGT	GAC	* ACC	CCC	* ACC	* TCA	TGC	* ACT	GTT	* GAT	* TAT	TCT
Cys	Lys	Ala	Lys	Arg	Asp	Thr	Pro	Thr	Ser	Суѕ	Thr	Val	Asp	Tyr	Ser>
1490		*	1500		*	151	*	*		520 *		*	1530 *		*
ACT (GTG Val	TAT Tyr	TTT Phe	GTC Val	AAC Asn	ATT Ile	GAA Glu	GTC Val	TGG Trp	GTA Val	GAA Glu	GCA Ala	GAG Glu	AAT Asn	GCC Ala>
154	0		1	550		;	1560		*	15	70 *	*		580	
CTT	GGG	AAG	GTT	ACA	TCA	GAT	CAT	ATC	AAT	TTT Phe	GAT	CCT	GTA	LAT A	AAA Lys>
		пуз	vai					610			1620				530
*	590		*	16	*	*		*		*	*		. *		*
GTG Val	AAG Lys	CCC Pro	AAT Asn	CCG Pro	CCA Pro	CAT His	AAT Asn	TTA Lev	TCA Ser	GTG Val	ATC Il∈	AAC Asr	TCA Sei	A GAC	G GAA 1 Glu>
*	1	640		*	1650		*	16	60 *	*	. 1	.670 *		*	1680 *
CTG	TCT Ser	AGT Ser	ATC	TTA Leu	AAA Lys	TTG Leu	ACA Thi	TGC Trp	ACC Thi	AAC Asr	CCA n Pro	AGT Sei	r ATT	r AAG e Ly:	G AGT s Ser>
	*	16	90	. *		700		*	1710)	*	17	720	,	*
GTT Val	ATA Ile	ATA Ile	CTA	AAA A	TAT	AAC Asn	ATT	CAA	TAT TYI	AGC Arg	ACC Thr	AAA Lys	A GA' s Ası	r GCG p Ala	C TCA a Ser>
1730			1740)	*	17	50	1	*	L760		*	177	0 *	*
ACT Thr	TGG Trp	AGC Sea	C CAC	G ATT	r CCT e Pro	CCT Pro	GA/	A GAG	AC/	A GC	A TCC	C ACC	c cg.	A TC	T TCA r Ser>

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37/59 Fig.25D. 1800 1810 1790 TTC ACT GTC CAA GAC CTT AAA CCT TTT ACA GAA TAT GTG TTT AGG, ATT Phe Thr Val Gln Asp Leu Lys Pro Phe Thr Glu Tyr Val Phe Arg Ile> * 1850 1840 1860 1830 CGC TGT ATG AAG GAA GAT GGT AAG GGA TAC TGG AGT GAC TGG AGT GAA Arg Cys Met Lys Glu Asp Gly Lys Gly Tyr Trp Ser Asp Trp Ser Glu> 1910 1900 1890 GAA GCA AGT GGG ATC ACC TAT GAA GAT AGA CCA TCT AAA GCA CCA AGT Glu Ala Ser Gly Ile Thr Tyr Glu Asp Arg Pro Ser Lys Ala Pro Ser> 1960 1950 1940 TTC TGG TAT AAA ATA GAT CCA TCC CAT ACT CAA GGC TAC AGA ACT GTA Phe Trp Tyr Lys Ile Asp Pro Ser His Thr Gln Gly Tyr Arg Thr Val> 1990 2000 2010 1970 1980 CAA CTC GTG TGG AAG ACA TTG CCT CCT TTT GAA GCC AAT GGA AAA ATC Gln Leu Val Trp Lys Thr Leu Pro Pro Phe Glu Ala Asn Gly Lys Ile> 2040 2050 2030 TTG GAT TAT GAA GTG ACT CTC ACA AGA TGG AAA TCA CAT TTA CAA AAT Leu Asp Tyr Glu Val Thr Leu Thr Arg Trp Lys Ser His Leu Gln Asn> 2090 2080 2100 2070 TAC ACA GTT AAT GCC ACA AAA CTG ACA GTA AAT CTC ACA AAT GAT CGC Tyr Thr Val Asn Ala Thr Lys Leu Thr Val Asn Leu Thr Asn Asp Arg> 2150 2140 2120 2130 * TAT CTA GCA ACC CTA ACA GTA AGA AAT CTT GTT GGC AAA TCA GAT GCA Tyr Leu Ala Thr Leu Thr Val Arg Asn Leu Val Gly Lys Ser Asp Ala> 2190 2180 GCT GTT TTA ACT ATC CCT GCC TGT GAC TTT CAA GCT ACT CAC CCT GTA Ala Val Leu Thr Ile Pro Ala Cys Asp Phe Gln Ala Thr His Pro Val> 2240 2210 2220 2230 ATG GAT CTT AAA GCA TTC CCC AAA GAT AAC ATG CTT TGG GTG GAA TGG Met Asp Leu Lys Ala Phe Pro Lys Asp Asn Met Leu Trp Val Glu Trp> 2280 2290 2270 ACT ACT CCA AGG GAA TCT GTA AAG AAA TAT ATA CTT GAG TGG TGT GTG

Thr Thr Pro Arg Glu Ser Val Lys Lys Tyr Ile Leu Glu Trp Cys Val>

2310
2320
2330
2340
2350

*
TTA TCA GAT AAA GCA CCC TGT ATC ACA GAC TGG CAA CAA GAA GAT GGT Leu Ser Asp Lys Ala Pro Cys Ile Thr Asp Trp Gln Gln Glu Asp Gly>
2360
2370
2380
2390
2400

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Fig.25E.

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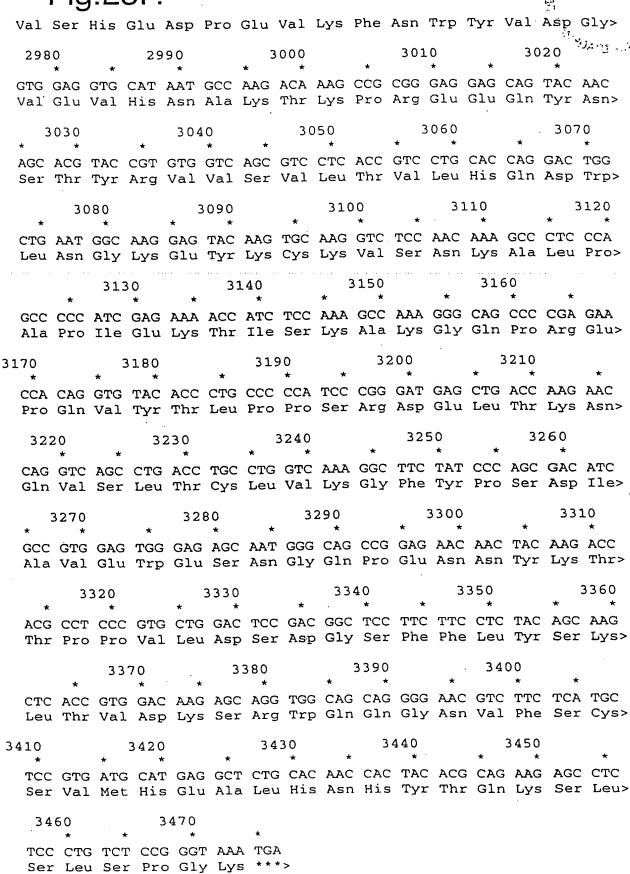
ACC GTG CAT CGC ACC TAT TTA AGA GGG AAC TTA GCA GAG AGC AAA TGC Thr Val His Arg Thr Tyr Leu Arg Gly Asn Leu Ala Glu Ser Lys Cys> 2430 2420 2410 TAT TTG ATA ACA GTT ACT CCA GTA TAT GCT GAT GGA CCA GGA AGC CCT Tyr Leu Ile Thr Val Thr Pro Val Tyr Ala Asp Gly Pro Gly Ser Pro> 2490 2480 2470 2460 GAA TCC ATA AAG GCA TAC CTT AAA CAA GCT CCA CCT TCC AAA GGA CCT Glu Ser Ile Lys Ala Tyr Leu Lys Gln Ala Pro Pro Ser Lys Gly Pro> 2520 2.530 2500 2510 ACT GTT CGG ACA AAA AAA GTA GGG AAA AAC GAA GCT GTC TTA GAG TGG Thr Val Arg Thr Lys Lys Val Gly Lys Asn Glu Ala Val Leu Glu Trp> 2570 2580 GAC CAA CTT CCT GTT GAT GTT CAG AAT GGA TTT ATC AGA AAT TAT ACT Asp Gln Leu Pro Val Asp Val Gln Asn Gly Phe Ile Arg Asn Tyr Thr> 2620 2630 2640 2610 ATA TTT TAT AGA ACC ATC ATT GGA AAT GAA ACT GCT GTG AAT GTG GAT Ile Phe Tyr Arg Thr Ile Ile Gly Asn Glu Thr Ala Val Asn Val Asp> 2670 2660 TCT TCC CAC ACA GAA TAT ACA TTG TCC TCT TTG ACT AGT GAC ACA TTG Ser Ser His Thr Glu Tyr Thr Leu Ser Ser Leu Thr Ser Asp Thr Leu> 2690 2700 2710 TAC ATG GTA CGA ATG GCA GCA TAC ACA GAT GAA GGT GGG AAG GAT GGT Tyr Met Val Arg Met Ala Ala Tyr Thr Asp Glu Gly Gly Lys Asp Gly> 2770 2760 2750 CCA GAA TTC ACT TTT ACT ACC CCA AAG TTT GCT CAA GGA GAA ATT GAA Pro Glu Phe Thr Phe Thr Thr Pro Lys Phe Ala Gln Gly Glu Ile Glu> 2810 2820 2790 2800 TCC GGG GGC GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA Ser Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu> 2860 2870 2850 2840 CTC CTG GGG GGA CCG TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp> 2900 2910 . 2890 ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GAC Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Asp> 2950 2960 2970 2930 2940 GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC

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Fig.25F.

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40/59 Fia.26A. ATG GTG CTT CTG TGG TGT GTA GTG AGT CTC TAC TTT TAT GGA ATC CTG Met Val Leu Trp Cys Val Val Ser Leu Tyr Phe Tyr Gly Ile Leu> CAA AGT GAT GCC TCA GAA CGC TGC GAT GAC TGG GGA CTA GAC ACC ATG Gln Ser Asp Ala Ser Glu Arg Cys Asp Asp Trp Gly Leu Asp Thr Met> AGG CAA ATC CAA GTG TTT GAA GAT GAG CCA GCT CGC ATC AAG TGC CCA Arg Gln Ile Gln Val Phe Glu Asp Glu Pro Ala Arg Ile Lys Cys Pro> CTC TTT GAA CAC TTC TTG AAA TTC AAC TAC AGC ACA GCC CAT TCA GCT Leu Phe Glu His Phe Leu Lys Phe Asn Tyr Ser Thr Ala His Ser Ala> GGC CTT ACT CTG ATC TGG TAT TGG ACT AGG CAG GAC CGG GAC CTT GAG Gly Leu Thr Leu Ile Trp Tyr Trp Thr Arg Gln Asp Arg Asp Leu Glu> GAG CCA ATT AAC TTC CGC CTC CCC GAG AAC CGC ATT AGT AAG GAG AAA Glu Pro Ile Asn Phe Arg Leu Pro Glu Asn Arg Ile Ser Lys Glu Lys> GAT GTG CTG TGG TTC CGG CCC ACT CTC CTC AAT GAC ACT GGC AAC TAT Asp Val Leu Trp Phe Arg Pro Thr Leu Leu Asn Asp Thr Gly Asn Tyr> ACC TGC ATG TTA AGG AAC ACT ACA TAT TGC AGC AAA GTT GCA TTT CCC Thr Cys Met Leu Arg Asn Thr Thr Tyr Cys Ser Lys Val Ala Phe Pro> 4.30 TTG GAA GTT GTT CAA AAA GAC AGC TGT TTC AAT TCC CCC ATG AAA CTC Leu Glu Val Val Gin Lys Asp Ser Cys Phe Asn Ser Pro Met Lys Leu> CCA GTG CAT AAA CTG TAT ATA GAA TAT GGC ATT CAG AGG ATC ACT TGT Pro Val His Lys Leu Tyr Ile Glu Tyr Gly Ile Gln Arg Ile Thr Cys> CCA AAT GTA GAT GGA TAT TTT CCT TCC AGT GTC AAA CCG ACT ATC ACT Pro Asn Val Asp Gly Tyr Phe Pro Ser Ser Val Lys Pro Thr Ile Thr> TGG TAT ATG GGC TGT TAT AAA ATA CAG AAT TTT AAT AAT GTA ATA CCC

Trp Tyr Met Gly Cys Tyr Lys Ile Gln Asn Phe Asn Asn Val Ile Pro>

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		Fi	a.2	26E	3.			41/5	9							
	58		ے. ر		90			600		•	61	.0	•	ϵ	20,	
	GAA Glu	GGT Gly	ATG Met	AAC Asn	TTG Leu	AGT Ser	TTC Phe	CTC Leu	ATT Ile	GCC Ala	TTA Leu	ATT Ile	TCA Ser	AAT Asn	AAT: Asn	ĢGA Ġlÿ>∵
		630			64			6	50			660			67	0
	* AAT Asn	* TAC Tyr	ACA Thr	* TGT Cys	GTT Val	* GTT Val	ACA Thr	тат туг	CCA	GAA Glu	AAT Asn	GGA	CGT Arg	ACG Thr	TTT Phe	CAT
		. 6	80			690		4	70	0		7	10		_	720
	CTC · Leu	ACC Thr	AGG Arg	ACT Thr	* CTG Leu	ACT	GTA Val	AAG Lys	GTA Val	GTA	GGC Gly	TCT Ser	CCA	AAA Lys	AAT Asn	
		4.	73	30		7	40			750			76	50		
	GTG	ccc *	CCT	* GTG	ATC	CAT	TCA	CCT	AAT	GAT	CAT	GTG	GTC	TAT	GAG	AAA
•	70	Pro	Pro	780	ile	HIS	Ser 79		ASH		300	Var	vai	810	GIU	Lys>
•	*		*	*	a	*	_	*	*		*	CMC	* ·	*	» Cm	*
	GAA	Pro	GGA	GAG Glu	GAG	Leu	Leu	Ile	Pro	Cys	Thr	Val	Tyr	Phe	Ser	Phe>
	82	20	*	8	330		*	840		*	85	50 *	*	8	360 *	
	CTG Leu	ATG	GAT Asp	TCT Ser	CGC	AAT Asn	GAG	GTT Val	TGG Trp	TGG Trp	ACC Thr	ATT Ile	GAT Asp	GGA Gly	AAA Lys	AAA Lys>
		870		•	88	30	*	8	390 *		*	900		*	9:	LO *
	CCT Pro	GAT	GAC Asp	ATC Ile	ACT Thr	ATT Ile	GAT Asp	GTC Val	ACC Thr	ATT Ile	AAC Asn	GAA Glu	AGT Ser	ATA Ile	AGT Ser	CAT His>
	_	9	920		4	930			9 4	10	*	9	950		*	960
				GAA Glu									AGC			
			9	70		9	980		*	990		4	10	00		
	GTT Val	* ACC Thr	TCT Ser	* GAG Glu	GAT Asp	CTC Leu	* AAG Lys	CGC Arg	AGC	TAT	GTC Val	TGT Cys	CAT His	GCT	AGA Arg	AGT Ser>
1	010			1020			10	30	_	1.	040			1050		*
	* GCC Ala	AAA Lys	* GGC Gly	* GAA Glu	GTT Val	GCC Ala	AAA Lys	GCA Ala	GCC Ala	AAG Lys	GTG Vàl	AAG Lys	CAG Gln	AAA Lys	GTG Val	CCA Pro>
	10	60	4	1	070		*	1080		*	10	90	*	1	100	
		CCA					TCC	GGT							GAG	GCT Ala>
		1110		-		20			130			1140				50
	* GAT Asp	* AAA Lys	TGC	* : AAG : Lys	GAA Glu	* CGT Arg	* GAA Glu	GAA Glu	* AAA Lys	ATA Ile	* ATT	* TTA Lev	GTG Val	* TCA Ser	TCT Ser	* GCA Ala>
		1	160		*	1170		*	11	80	*	. 1	190		*	1200

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Fig.26C.

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AAT GAA ATT GAT GTT CGT CCC TGT CCT CTT AAC CCA AAT GAA CAC, AAA Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro Asn Glu His Lys> 1240 1210 1220 1230 GGC ACT ATA ACT TGG TAT AAG GAT GAC AGC AAG ACA CCT GTA TCT ACA Gly Thr Ile Thr Trp Tyr Lys Asp Asp Ser Lys Thr Pro Val Ser Thr> 1260 1270 1280 1290 1260 GAA CAA GCC TCC AGG ATT CAT CAA CAC AAA GAG AAA CTT TGG TTT GTT Glu Gln Ala Ser Arg Ile His Gln His Lys Glu Lys Leu Trp Phe Val> 1310 1320 1330 1300 CCT GCT AAG GTG GAG GAT TCA GGA CAT TAC TAT TGC GTG GTA AGA AAT Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys Val Val Arg Asn> TCA TCT TAC TGC CTC AGA ATT AAA ATA AGT GCA AAA TTT GTG GAG AAT Ser Ser Tyr Cys Leu Arg Ile Lys Ile Ser Ala Lys Phe Val Glu Asn> 1410 1420 1430 * * * * * * GAG CCT AAC TTA TGT TAT AAT GCA CAA GCC ATA TTT AAG CAG AAA CTA Glu Pro Asn Leu Cys Tyr Asn Ala Gln Ala Ile Phe Lys Gln Lys Leu> 1460 1470 1450 CCC GTT GCA GGA GAC GGA GGA CTT GTG TGC CCT TAT ATG GAG TTT TTT Pro Val Ala Gly Asp Gly Gly Leu Val Cys Pro Tyr Met Glu Phe Phe> 1520 1510 * * 1500 AAA AAT GAA AAT AAT GAG TTA CCT AAA TTA CAG TGG TAT AAG GAT TGC Lys Asn Glu Asn Asn Glu Leu Pro Lys Leu Gln Trp Tyr Lys Asp Cys> 1560 1550 1540 AAA CCT CTA CTT CTT GAC AAT ATA CAC TTT AGT GGA GTC AAA GAT AGG Lys Pro Leu Leu Leu Asp Asn Ile His Phe Ser Gly Val Lys Asp Arg> 1620 * 1610 * * 1600 CTC ATC GTG ATG AAT GTG GCT GAA AAG CAT AGA GGG AAC TAT ACT TGT Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly Asn Tyr Thr Cys> 1660 1670 1650 1640 CAT GCA TCC TAC ACA TAC TTG GGC AAG CAA TAT CCT ATT ACC CGG GTA His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro Ile Thr Arg Val> 1700 * 1710 ATA GAA TTT ATT ACT CTA GAG GAA AAC AAA CCC ACA AGG CCT GTG ATT Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr Arg Pro Val Ile> 1760 1750 1730 1740 GTG AGC CCA GCT AAT GAG ACA ATG GAA GTA GAC TTG GGA TCC CAG ATA

Val Ser Pro Ala Asn Glu Thr Met Glu Val Asp Leu Gly Ser Gln Ile>

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Fig.26D. 43/59 1820 1790 1810 1800 * CAA TTG ATC TGT AAT GTC ACC GGC CAG TTG AGT GAC ATT GCT TAC TGG Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp Ile Ala Tyr Trp> 1850 1860 1840 1830 AAG TGG AAT GGG TCA GTA ATT GAT GAA GAT GAC CCA GTG CTA GGG GAA Lys Trp Asn Gly Ser Val Ile Asp Glu Asp Asp Pro Val Leu Gly Glu> 1910 1900 1890 GAC TAT TAC AGT GTG GAA AAT CCT GCA AAC AAA AGA AGG AGT ACC CTC Asp Tyr Tyr Ser Val Glu Asn Pro Ala Asn Lys Arg Arg Ser Thr Leu> 1950 1940 ATC ACA GTG CTT AAT ATA TCG GAA ATT GAG AGT AGA TTT TAT AAA CAT Ile Thr Val Leu Asn Ile Ser Glu Ile Glu Ser Arg Phe Tyr Lys His> 2000 1990 2010 1970 1980 CCA TTT ACC TGT TTT GCC AAG AAT ACA CAT GGT ATA GAT GCA GCA TAT Pro Phe Thr Cys Phe Ala Lys Asn Thr His Gly Ile Asp Ala Ala Tyr> 2050 2030 2040 ATC CAG TTA ATA TAT CCA GTC ACT AAT TCC GGA GAC AAA ACT CAC ACA Ile Gln Leu Ile Tyr Pro Val Thr Asn Ser Gly Asp Lys Thr His Thr> 2070 2080 2090 2100 TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe> 2140 2150 2130 * CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro> 2180 2190 GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC. Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val> 2240 2230 2210 AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr> 2290 2280 AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val> 2330 2340 2310 2320 CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC

2360 2370 2380 2390 2400

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys>

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Fig.26E.

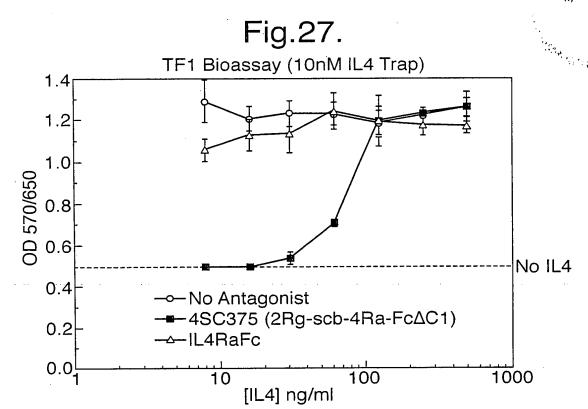
	*		*		*	*		*		*	*		*		*	*
	AAG	GTC	TCC	AAC	AAA	GCC	CTC	CCA	GCC	CCC	АТС	GAG	AAA	ACC	ATC	TCC
	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser>
				•		2.4	2.0		ว	430			244	. ^		
		*	241	. O *	*	24	20 *		*	*		* .	245	*	*	
	AAA	GCC	AAA	GGG	CAG	CCC	CGA	GAA	CCA	CAG	GTG	TAC	ACC	CTG	CCC	CCA
	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro>
							247			2.3	180			2490		
24	50 *		*	460		*	24	*	*	۷ ۶	*		*	*		*
	TCC	CGG	GAG	GAG	ATG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC	TGC	CTG	GTC
	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val>
	250		-	2.0	510	-		2520			253	3.0		21	540	
	250	*	*	. 2:	* 2 T O		*	*		*	23.	*	*	2.	*	
	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	TAA	GGG
	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly>
		2550			25/	50		2.0	570			2580			259	90
	*	2550		*	25	*	*		570 *		*	2580		*	259	*
	* CAG	* CCG	GAG	* AAC	AAC	* TAC	* AAG	ACC	* ACG	CCT	* CCC	* GTG	CTG	* GAC	TCC	* GAC
	* CAG	* CCG	GAG Glu	* AAC Asn	AAC	* TAC	* AAG Lys	ACC	* ACG	CCT Pro	* CCC	* GTG	CTG Leu	* GAC Asp	TCC	*
	* CAG	* CCG Pro	Glu	* AAC Asn	AAC Asn	* TAC Tyr	* AAG Lys	ACC	* ACG Thr	Pro	* CCC	* GTG Val	CTG Leu 530	* GAC Asp	TCC Ser	* GAC
	* CAG Gln *	* CCG Pro	Glu 600 *	Asn	AAC Asn	* TAC Tyr 2610 *	Lys	ACC Thr	* ACG Thr	Pro 20 *	* CCC Pro	* GTG Val	Leu 530 *	Asp	TCC Ser	* GAC Asp> 2640 *
	* CAG Gln *	CCG Pro 2	Glu 600 *	Asn TTC	AAC Asn *	* TAC Tyr 2610 * TAT	Lys AGC	ACC Thr * AAG	* ACG Thr 262	Pro 20 * ACC	* CCC Pro * GTG	* GTG Val 2	Leu 530 * AAG	Asp	TCC Ser * AGG	GAC Asp> 2640 *
	* CAG Gln *	CCG Pro 2	Glu 600 *	Asn TTC	AAC Asn *	* TAC Tyr 2610 * TAT	Lys AGC	ACC Thr * AAG	* ACG Thr 262	Pro 20 * ACC	* CCC Pro * GTG	* GTG Val 2	Leu 530 * AAG	Asp	TCC Ser * AGG	* GAC Asp> 2640 *
	* CAG Gln *	CCG Pro 2	Glu 600 * TTC Phe	Asn TTC Phe	AAC Asn *	TAC Tyr 2610 TAT Tyr	Lys AGC Ser	ACC Thr * AAG	* ACG Thr 262 CTC Leu	Pro 20 * ACC	* CCC Pro * GTG	* GTG Val 2	Leu 530 * AAG	Asp AGC Ser	TCC Ser * AGG	GAC Asp> 2640 *
	* CAG Gln * GGC Gly	* CCG Pro 20 TCC Ser	Glu 600 * TTC Phe 26	TTC Phe	AAC Asn * CTC Leu	TAC Tyr 2610 * TAT Tyr	AGC Ser 660	ACC Thr * AAG Lys	* ACG Thr 262 CTC Leu	Pro ACC Thr 2670	CCC Pro	GTG Val 2 GAC Asp	Leu 630 * AAG Lys 26	Asp AGC Ser 80	TCC Ser * AGG Arg	* GAC Asp> 2640 * TGG Trp>
	* CAG Gln * GGC Gly	* CCG Pro 20 TCC Ser	Glu 600 * TTC Phe 26	TTC Phe 50	AAC Asn * CTC Leu *	* TAC Tyr 2610 * TAT Tyr 2	Lys AGC Ser 660 *	ACC Thr * AAG Lys	* ACG Thr 262 CTC Leu * TCC	Pro 20 * ACC Thr 2670 *	* CCC Pro * GTG Val	* GTG Val 2 GAC Asp	Leu 630 * AAG Lys 26 GAG	Asp AGC Ser 80 *	TCC Ser * AGG Arg	* GAC Asp> 2640 * TGG Trp>
	* CAG Gln * GGC Gly	* CCG Pro 20 TCC Ser	Glu 600 * TTC Phe 26	TTC Phe 50	AAC Asn * CTC Leu *	* TAC Tyr 2610 * TAT Tyr 2	Lys AGC Ser 660 *	ACC Thr * AAG Lys	* ACG Thr 262 CTC Leu * TCC	Pro 20 * ACC Thr 2670 *	* CCC Pro * GTG Val	* GTG Val 2 GAC Asp	Leu 630 * AAG Lys 26 GAG	Asp AGC Ser 80 *	TCC Ser * AGG Arg	* GAC Asp> 2640 * TGG Trp>
26	* CAG Gln * GGC Gly	* CCG Pro 20 TCC Ser	Glu 600 * TTC Phe 26 GGG	TTC Phe 50	AAC Asn * CTC Leu * GTC Val	* TAC Tyr 2610 * TAT Tyr 2	Lys AGC Ser 660 *	ACC Thr * AAG Lys TGC Cys	* ACG Thr 262 CTC Leu * TCC	Pro 20 * ACC Thr 2670 * GTG Val	* CCC Pro * GTG Val	* GTG Val 2 GAC Asp	Leu 630 * AAG Lys 26 GAG Glu	Asp AGC Ser 80 *	TCC Ser * AGG Arg	* GAC Asp> 2640 * TGG Trp>
26	CAG Gln * GGC Gly CAG Gln * *	* CCG Pro 2 TCC Ser * CAG Gln	Glu 600 * TTC Phe 26 GGG Gly	TTC Phe 50 * AAC Asn 2700	AAC Asn * CTC Leu * GTC Val	* TAC Tyr 2610 * TAT Tyr 2 TTC Phe	AGC Ser 660 * TCA Ser	ACC Thr * AAG Lys TGC Cys	* ACG Thr 26: CTC Leu * TCC Ser	Pro 20 * ACC Thr 2670 * GTG Val	* CCC Pro * GTG Val ATG Met	GTG Val 2 GAC Asp * CAT His	Leu 630 * AAG Lys 26 GAG Glu *	ASP AGC Ser 80 * GCT Ala 2730 *	TCC Ser * AGG Arg CTG Leu	* GAC Asp> 2640 * TGG Trp> CAC His>
26	CAG Gln CAG Gly CAG Gln AAC	* CCG Pro 2 TCC Ser * CAG Gln	Glu 600 * TTC Phe 26 GGG Gly *	TTC Phe 50 * AAC Asn 2700 *	AAC Asn * CTC Leu * GTC Val	TAC Tyr 2610 TAT Tyr 2 TTC Phe	AGC Ser 660 * TCA Ser 27	ACC Thr * AAG Lys TGC Cys	* ACG Thr 26: CTC Leu * TCC Ser	Pro 20 * ACC Thr 2670 * GTG Val 2	* CCC Pro * GTG Val ATG Met 720 * TCT	GTG Val 2 GAC Asp * CAT His	Leu 630 * AAG Lys 26 GAG Glu * GGT	ASP AGC Ser 80 * GCT Ala 2730 *	TCC Ser * AGG Arg CTG Leu	* GAC Asp> 2640 * TGG Trp> CAC His>

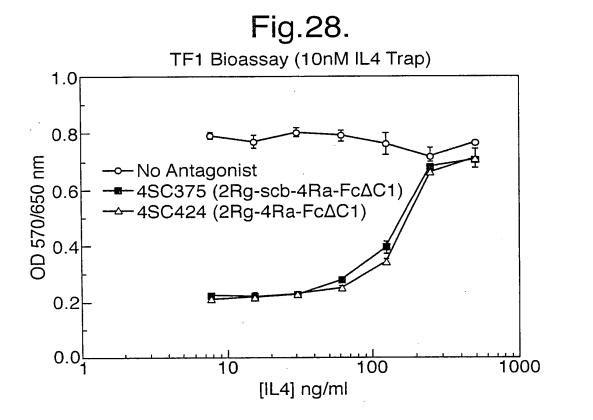
Title: RECEPTOR BASED ANTAGONISTS

ND METHODS OF MAKING AND SINCE

Inventor: STAHL, et al. Docket No.: REG 203-A

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Title: RECEPTOR BASED ANTAGONISTS

ND METHODS OF MAKING AND ING

inventor: STAHL, et al. Docket No.: REG 203-A

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Fig.29.

XG1 Bioassay (10nM IL6 Trap)

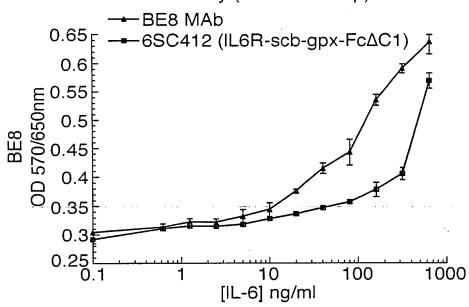
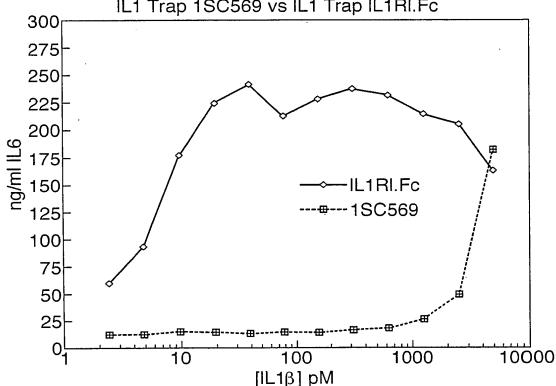


Fig.30.

MRC5 Bioassay (10nM IL1 Trap)
IL1 Trap 1SC569 vs IL1 Trap IL1RI.Fc



Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND ING Inventor: STAHL, et al. Docket No.: REG 203-A

Fig.31A.

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		1	. 0			20			30			4	. 0		· · · · · · · · · · · · · · · · · · ·
	*		*	*		*		*	*		* .		*	*	
ATG	GTG	TGG	CTT	TGC	ጥርጥ	GGG	CTC	CTG	TTC	CCT	GTG	AGC	TGC	CTG	GTC
															CAG
															Val>
rice	Val	ııp	Dea	Cys	JCI	Gry	БСС	Dea	1110	110	Val	501	CyD	Doa	V412
50			60			7	0			80			90		
*		*	*		*	′	*	*		*		*	*		*
	CMC		GTG	CCA		mcm.			אתיי		CTC			CAC	
			CAC												
ьeu	геп	GIN	Val	Ala	ser	Ser	GIA	ASI	met	ьуs	Val	ьeu	GIN	GIU	Pro>
1.0			-	1.0			100			٠, -			-		
10				.10		*	120			13	*	*	-	L40 *	
	*	*									• •				
			TCC												
			AGG												
Thr	Cys	Val	Ser	Asp	Tyr	Met	Ser	Ile	Ser	Thr	Cys	GIu	Trp	Lys	Met>
													•		
	150			16]	L70			180			19	90
*	*		*		*	*		*		*	*		*		*
			ACC												
			TGG												
Asn	Gly	Pro	Thr	Asn	Cys	Ser	Thr	Glu	Leu	Arg	Leu	Leu	Tyr	Gln	Leu>
	•														
	:	200			210			22	20			230			240
*		*		*	*		*		*	*		*		*	*
			CTC												
CAA	AAA	GAC	GAG	AGG	CTT	CGG	GTG	TGC	ACA	TAG	GGA	CTC	TTG	TTG	CCT
Val	Phe	Leu	Leu	Ser	Glu	Ala	His	Thr	Cys	Ile	Pro	Glu	Asn	Asn	Gly>
		2	50		:	260			270			2	80		
	*		*	*		*		*	*		*		*	*	
GGC	GCG	GGG	TGC	GTG	TGC	CAC	CTG	CTC	ATG	GAT	GAC	GTG	GTC	AGT	GCG
CCG	CGC	CCC	ACG	CAC	ACG	GTG	GAC	GAG	TAC	CTA	CTG	CAC	CAG	TCA	CGC
Gly	Ala	Gly	Cys	Val	Cys	His	Leu	Leu	Met	Asp	Asp	Val	Val	Ser	Ala>
290			300			3	10			320			330		•
*		*	*		*		*	*		*		*	*		*
GAT	AAC	TAT	ACA	CTG	GAC	CTG	TGG	GCT	GGG	CAG	CAG	CTG	CTG	TGG	AAG
															TTC
															Lys>
-		•			_										
3.	40			350			360			3	70			380	
·	*	*		*		*	*		*		*	*		*	
GGC	TCC	TTC	AAG	CCC	AGC	GAG	CAT	GTG	AAA	CCC	AGG	GCC	CCA	GGA	AAC
															TTG
															Asn>
				_					_		_			-	

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Fig.31B.

*	390		*	40	0	*	4	10		*	420 *		*	43	0
CTG GAC	ACA TGT	CAA	CAC GTG	TGG	ATT	CAG	AGG	CTG	TGA	GAC	CTG GAC Leu	GAC	TGG	ACC	
*	4	40		*	450 *		*	46	0 *	*	4	.70 *		*	480
TTG	GGC	ATA	GGG	CCT GGA	CTG	ATT	ATG	GAC	ATA	ATT	CAT GTA His	GAG	TGG	ATA	
		49	90 *	*	5	00		*	510		*	52	20	*	
CAG	TTG	TAA	TGG ACC	AGT TCA	CTT	AAC TTG	CTG	CCG GGC	GCA CGT	CTA	TTC AAG	TCT.	ATC TAG	TAT ATA	
530 . *		*	540 *		*	55	0 *	*	5	60 *		*	570 *		*
CAC	TGG	ATG	GAT	CTT	GGG	AGG	GAG	GCG	TAG	CGT	GCC CGG Ala	TCG	TGG	GAC	
5	B 0 *	*	5	590 *		*	600		★	6:	10 *	*	6	520 *	
AGA	GGG CCC	ATT TAA		ATG	TCC	CGT									TAT . ATA
	GTĀ	Ile	Ser	Tyr	Arg	Ala	Arg	Val	Arg	Ala	Trp	Ala	Gln	Ser	Tyr>
*	630 *	Ile	Ser *		Arg 40	Ala *	Arg	Val 550	Arg	Ala *	Trp 660 *	Ala	Gln *	Ser	Tyr> 70 *
TTG	630 * ACC TGG	ACC TGG	ser * TGG ACC	6 AGT TCA	40 * GAG CTC	* TGG ACC	Arg AGC TCG	Val 550 * CCC GGG	Arg AGC TCG	* ACC TGG	Trp 660 * AAG TTC	Ala TGG ACC	<pre>Gln * CAC GTG</pre>	Ser 6' AAC TTG	70 * TCC
AAC TTG Asn	630 * ACC TGG Thr	ACC TGG Thr	ser * TGG ACC	AGT TCA Ser	40 * GAG CTC Glu 690	* TGG ACC	Arg AGC TCG	Val 550 * CCC GGG Pro	Arg AGC TCG	* ACC TGG	Trp 660 * AAG TTC Lys	Ala TGG ACC	<pre>Gln * CAC GTG</pre>	Ser 6' AAC TTG	70 * TCC AGG
AAC TTG Asn * TAC	630 * ACC TGG Thr	ACC TGG Thr 680 * GAG	* TGG ACC Trp CCC	AGT TCA Ser * TTC	40 * GAG CTC Glu 690 * GAG CTC	* TGG ACC Trp CAG GTC	AGC TCG Ser * TCC AGG	Val 550 * CCC GGG Pro 70 GGT CCA	Arg AGC TCG Ser 00 * GGG CCC	Ala * ACC TGG Thr * GGC CCG	Trp 660 * AAG TTC Lys GGG CCC	TGG ACC Trp 710 * GGC CCG	<pre># CAC GTG His GCC CGG</pre>	Ser 6' AAC TTG Asn * GCG CGC	70 * TCC AGG Ser> 720 *
AAC TTG Asn * TAC	630 * ACC TGG Thr	ACC TGG Thr 680 * GAG CTC Glu	* TGG ACC Trp CCC	AGT TCA Ser * TTC	40 * GAG CTC Glu 690 * GAG CTC	* TGG ACC Trp CAG GTC	AGC TCG Ser * TCC AGG	Val 550 * CCC GGG Pro 70 GGT CCA	Arg AGC TCG Ser 00 * GGG CCC	Ala * ACC TGG Thr * GGC CCG Gly	Trp 660 * AAG TTC Lys GGG CCC	TGG ACC Trp 710 * GGC CCG Gly	<pre># CAC GTG His GCC CGG</pre>	Ser 6' AAC TTG Asn * GCG CGC	TCC AGG Ser> 720 * CCT GGA Pro>

Title: RECEPTOR BASED ANTAGONISTS
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Fig.31C.

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770			780			79	0		8	00			810		
*		*.	*		*		*	*		*		*	*		*
CTC	TGC	ACA	СТА	АТА	TGG	ACA	TGG	TAA	CCA	CCC	GAG	GGA	GCC	AGC	TCA
													CGG		
Leu	Cys	Thr	Val	Ile	Trp	Thr	Trp	Asn	Pro	Pro	GIU	GTĀ	Ala	Ser	Ser>
82	0		8	30			840			85	0		- 8	60	
	*	*		*		*	*		. *		*	*		*	
יחיתית	mCm.	λ C·m	CUDA	ጥርር	ጥለጥ	സസസ	V Car	$C\Delta T$	ውጥጥ	GGC	CAC	מממ	CAA	מאַת	באמ
													GTT		
Asn	Cys	Ser	Leu	\mathtt{Trp}	Tyr	Phe	Ser	His	Phe	Gly	Asp	Lys	Gln	Asp	Lys>
	870			88	30		8	90			900			91	LO
*	*		*	•	*	*		*		*	* *		÷		*
777	ארח א	CCM	CCC	C 3 3	y CW	CCM	CCT	ጥር እ	מיחמ	CAA	СПА	CCC	CTG	יחממ	GNG
													GAC		
Lys	Ile	Ala	Pro	Glu	Thr	Arg	Arg	Ser	Ile	Glu	Val	Pro	Leu	Asn	Glu>
	Ç	920			930			94	10		9	950			960
*		*		*	*		*		*	*		*		*	*
	3 mm	mam	ama	~ ~ ~	OTTO:	000	maa	CNC	mcm	N C C	אככ	חתת	CNC	y Cm	CNC
							•						GAG		
													CTC		
Arg	Ile	Cys	Leu	Gln	Val	Gly	Ser	Gln	Cys	Ser	Thr	Asn	Glu	Ser	Glu>
		9,	70		9	980			990			10	00		
	*	-	*	*		* .		*	*		*		*	*	
220			*		COO		* * *			תר מ		CCA			CAT
	CCT	AGC	* ATT	TTG		GAA		TGC	ATC		CCC		GAA	GGT	
TTC	CCT GGA	AGC TCG	* ATT TAA	TTG AAC	CAA	GAA CTT	TTT	TGC ACG	ATC TAG	AGT	CCC GGG	GGT	GAA CTT	GGT CCA	CTA
TTC	CCT GGA	AGC TCG	* ATT TAA	TTG AAC	CAA	GAA CTT	TTT	TGC ACG	ATC TAG	AGT	CCC GGG	GGT	GAA CTT	GGT CCA	
TTC	CCT GGA	AGC TCG	* ATT TAA	TTG AAC	CAA	GAA CTT	TTT	TGC ACG	ATC TAG	AGT	CCC GGG	GGT	GAA CTT	GGT CCA	CTA
TTC Lys	CCT GGA	AGC TCG Ser	* ATT TAA Ile	TTG AAC	CAA	GAA CTT Glu	TTT Lys	TGC ACG	ATC TAG Ile	AGT	CCC GGG	GGT Pro	GAA CTT	GGT CCA	CTA
TTC	CCT GGA	AGC TCG Ser	* ATT TAA	TTG AAC	CAA	GAA CTT	TTT Lys	TGC ACG	ATC TAG Ile	AGT Ser	CCC GGG	GGT Pro	GAA CTT Glu	GGT CCA	CTA
TTC Lys 1010 *	CCT GGA Pro	AGC TCG Ser	* ATT TAA Ile 1020 *	TTG AAC Leu	CAA Val *	GAA CTT Glu	TTT Lys 30 *	TGC ACG Cys *	ATC TAG Ile	AGT Ser 040	CCC GGG Pro	GGT Pro	GAA CTT Glu 1050	GGT CCA Gly	CTA Asp>
TTC Lys 1010 * CCT	CCT GGA Pro	AGC TCG Ser *	* ATT TAA Ile 1020 * GCT	TTG AAC Leu GTG	CAA Val * ACT	GAA CTT Glu 10:	TTT Lys 30 * CTT	TGC ACG Cys * CAA	ATC TAG Ile 1	AGT Ser 040 * ATT	CCC GGG Pro	GGT Pro * CAC	GAA CTT Glu 1050 *	GGT CCA Gly CTG	CTA Asp> * AGC
TTC Lys 1010 * CCT GGA	CCT GGA Pro GAG CTC	AGC TCG Ser * TCT AGA	* ATT TAA Ile 1020 * GCT CGA	TTG AAC Leu GTG CAC	CAA Val * ACT TGA	GAA CTT Glu 103 GAG CTC	TTT Lys 30 * CTT GAA	TGC ACG Cys * CAA GTT	ATC TAG Ile 1 TGC ACG	AGT Ser 040 * ATT TAA	CCC GGG Pro TGG ACC	GGT Pro * CAC GTG	GAA CTT Glu 1050 * AAC TTG	GGT CCA Gly CTG GAC	CTA Asp> * AGC TCG
TTC Lys 1010 * CCT GGA	CCT GGA Pro GAG CTC	AGC TCG Ser * TCT AGA	* ATT TAA Ile 1020 * GCT CGA	TTG AAC Leu GTG CAC	CAA Val * ACT TGA	GAA CTT Glu 103 GAG CTC	TTT Lys 30 * CTT GAA	TGC ACG Cys * CAA GTT	ATC TAG Ile 1 TGC ACG	AGT Ser 040 * ATT TAA	CCC GGG Pro TGG ACC	GGT Pro * CAC GTG	GAA CTT Glu 1050 * AAC TTG	GGT CCA Gly CTG GAC	CTA Asp> * AGC
TTC Lys 1010 * CCT GGA	CCT GGA Pro GAG CTC	AGC TCG Ser * TCT AGA	* ATT TAA Ile 1020 * GCT CGA	TTG AAC Leu GTG CAC	CAA Val * ACT TGA	GAA CTT Glu 103 GAG CTC	TTT Lys 30 * CTT GAA	TGC ACG Cys * CAA GTT	ATC TAG Ile 1 TGC ACG	AGT Ser 040 * ATT TAA	CCC GGG Pro TGG ACC	GGT Pro * CAC GTG	GAA CTT Glu 1050 * AAC TTG	GGT CCA Gly CTG GAC	CTA Asp> * AGC TCG
TTC Lys 1010 * CCT GGA Pro	CCT GGA Pro GAG CTC Glu	AGC TCG Ser * TCT AGA	* ATT TAA Ile 1020 * GCT CGA Ala	TTG AAC Leu GTG CAC	CAA Val * ACT TGA	GAA CTT Glu 103 GAG CTC Glu	TTT Lys 30 * CTT GAA	TGC ACG Cys * CAA GTT Gln	ATC TAG Ile 1 TGC ACG	AGT Ser 040 * ATT TAA	CCC GGG Pro TGG ACC Trp	GGT Pro * CAC GTG	GAA CTT Glu 1050 * AAC TTG ASN	GGT CCA Gly CTG GAC	CTA Asp> * AGC TCG
TTC Lys 1010 * CCT GGA	CCT GGA Pro GAG CTC Glu	AGC TCG Ser * TCT AGA	* ATT TAA Ile 1020 * GCT CGA Ala	TTG AAC Leu GTG CAC Val	CAA Val * ACT TGA	GAA CTT Glu 103 GAG CTC Glu	TTT Lys 30 * CTT GAA Leu	TGC ACG Cys * CAA GTT Gln	ATC TAG Ile 1 TGC ACG	AGT Ser 040 * ATT TAA Ile	CCC GGG Pro TGG ACC Trp	GGT Pro * CAC GTG	GAA CTT Glu 1050 * AAC TTG Asn	GGT CCA Gly CTG GAC Leu	CTA Asp> * AGC TCG
TTC Lys 1010 * CCT GGA Pro	CCT GGA Pro GAG CTC Glu	AGC TCG Ser * TCT AGA Ser	* ATT TAA Ile 1020 * GCT CGA Ala	TTG AAC Leu GTG CAC Val	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu	TTT Lys 30 * CTT GAA Leu 1080	TGC ACG Cys * CAA GTT Gln	ATC TAG Ile 1 TGC ACG Cys	AGT Ser 040 * ATT TAA Ile	CCC GGG Pro TGG ACC Trp	GGT Pro * CAC GTG His	GAA CTT Glu 1050 * AAC TTG ASD	GGT CCA Gly CTG GAC Leu 100	CTA Asp> * AGC TCG Ser>
TTC Lys 1010 * CCT GGA Pro . 100 TAC	GAG GAG CTC Glu 60 * ATG	AGC TCG Ser * TCT AGA Ser *	* ATT TAA Ile 1020 * GCT CGA Ala 10	TTG AAC Leu GTG CAC Val 070 * TCT	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu *	TTT Lys 30 * CTT GAA Leu 1080 *	TGC ACG Cys * CAA GTT Gln	ATC TAG Ile 1 TGC ACG Cys	AGT Ser 040 * ATT TAA Ile 10	CCC GGG Pro TGG ACC Trp 90 *	GGT Pro * CAC GTG His	GAA CTT Glu 1050 * AAC TTG Asn 1	GGT CCA Gly CTG GAC Leu 100 *	CTA Asp> * AGC TCG Ser>
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG	CCT GGA Pro GAG CTC Glu 60 * ATG	AGC TCG Ser * TCT AGA Ser * AAG	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA	TTG AAC Leu GTG CAC Val 070 * TCT AGA	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu * CTC GAG	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA	TGC ACG Cys * CAA GTT Gln GGA CCT	ATC TAG Ile 1 TGC ACG Cys * AGG TCC	AGT Ser 040 * ATT TAA Ile 10 AAT	CCC GGG Pro TGG ACC Trp 90 * ACC TGG	GGT Pro * CAC GTG His * AGT TCA	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG	GGT CCA Gly CTG GAC Leu 100 * GAC CTG	CTA Asp> * AGC TCG Ser> ACT TGA
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG	CCT GGA Pro GAG CTC Glu 60 * ATG	AGC TCG Ser * TCT AGA Ser * AAG	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA	TTG AAC Leu GTG CAC Val 070 * TCT AGA	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu * CTC GAG	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA	TGC ACG Cys * CAA GTT Gln GGA CCT	ATC TAG Ile 1 TGC ACG Cys * AGG TCC	AGT Ser 040 * ATT TAA Ile 10 AAT	CCC GGG Pro TGG ACC Trp 90 * ACC TGG	GGT Pro * CAC GTG His * AGT TCA	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG	GGT CCA Gly CTG GAC Leu 100 * GAC CTG	CTA Asp> * AGC TCG Ser>
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG	CCT GGA Pro GAG CTC Glu 60 * ATG	AGC TCG Ser * TCT AGA Ser * AAG	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA	TTG AAC Leu GTG CAC Val 070 * TCT AGA	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu * CTC GAG	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA	TGC ACG Cys * CAA GTT Gln GGA CCT	ATC TAG Ile 1 TGC ACG Cys * AGG TCC	AGT Ser 040 * ATT TAA Ile 10 AAT	CCC GGG Pro TGG ACC Trp 90 * ACC TGG	GGT Pro * CAC GTG His * AGT TCA	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG	GGT CCA Gly CTG GAC Leu 100 * GAC CTG	CTA Asp> * AGC TCG Ser> ACT TGA
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG Tyr	CCT GGA Pro GAG CTC Glu 60 * ATG	AGC TCG Ser * TCT AGA Ser * AAG TTC Lys	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA	TTG AAC Leu GTG CAC Val 070 * TCT AGA Ser	CAA Val * ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu * CTC GAG	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA Pro	TGC ACG Cys * CAA GTT Gln GGA CCT	ATC TAG Ile 1 TGC ACG Cys * AGG TCC	AGT Ser 040 * ATT TAA Ile 10 AAT TTA ASN	CCC GGG Pro TGG ACC Trp 90 * ACC TGG	GGT Pro * CAC GTG His * AGT TCA Ser	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG	GGT CCA Gly CTG GAC Leu 100 * GAC CTG Asp	CTA Asp> * AGC TCG Ser> ACT TGA
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG Tyr	GAG GAG CTC Glu 60 * ATG TAC Met	AGC TCG Ser * TCT AGA Ser * AAG TTC Lys	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA	TTG AAC Leu GTG CAC Val 070 * TCT AGA Ser	X ACT TGA Thr	GAA CTT Glu 10: GAG CTC Glu * CTC GAG	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA Pro	TGC ACG Cys * CAA GTT Gln GGA CCT Gly	ATC TAG Ile 1 TGC ACG Cys * AGG TCC	AGT Ser 040 * ATT TAA Ile 10 AAT TTA ASN	CCC GGG Pro TGG ACC Trp * ACC TGG Thr	GGT Pro * CAC GTG His * AGT TCA Ser	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG	GGT CCA Gly CTG GAC Leu 100 * GAC CTG Asp	CTA Asp> * AGC TCG Ser> ACT TGA Thr>
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG Tyr *	GAG Pro GAG CTC Glu 60 * ATG TAC Met	AGC TCG Ser * TCT AGA Ser * AAG TTC Lys	* ATT TAA Ile 1020 * GCT CGA Ala 10 TGT ACA Cys	TTG AAC Leu GTG CAC Val 070 * TCT AGA Ser	CAA Val * ACT TGA Thr TGG ACC Trp	GAA CTT Glu 10: GAG CTC Glu * CTC GAG Leu	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA Pro	TGC ACG Cys * CAA GTT Gln GGA CCT Gly 130 *	ATC TAG Ile 1 TGC ACG Cys * AGG TCC Arg	AGT Ser 040 * ATT TAA Ile 10 AAT TTA Asn	TGG ACC Trp ACC TGG Thr 1140	GGT Pro * CAC GTG His * AGT TCA Ser	GAA CTT Glu 1050 * AAC TTG Asn 1 CCC GGG Pro	GGT CCA Gly CTG GAC Leu 100 * GAC CTG Asp	CTA Asp> * AGC TCG Ser> ACT TGA Thr> 50 *
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG Tyr * AAC	GAG Pro GAG CTC Glu 60 * ATG TAC Met 1110 *	AGC TCG Ser * TCT AGA Ser * AAG TTC Lys	* ATT TAA Ile 1020 * GCT CGA Ala 1 TGT ACA Cys * CTC	TTG AAC Leu GTG CAC Val 070 * TCT AGA Ser 11	X ACT TGA Thr TGG ACC Trp 20	GAA CTT Glu 10: GAG CTC Glu * CTC GAG Leu	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA Pro	TGC ACG Cys * CAA GTT Gln GGA CCT Gly 130 * AGA	ATC TAG Ile 1 TGC ACG Cys * AGG TCC Arg	AGT Ser 040 * ATT TAA Ile 10 AAT TTA Asn * CTG	CCC GGG Pro TGG ACC Trp 90 * ACC TGG Thr 1140 *	GGT Pro * CAC GTG His AGT TCA Ser	GAA CTT Glu 1050 * AAC TTG ASN 1 CCC GGG Pro	GGT CCA Gly CTG GAC Leu 100 * GAC CTG Asp	CTA Asp> * AGC TCG Ser> ACT TGA Thr> 50 * CAA
TTC Lys 1010 * CCT GGA Pro 100 TAC ATG Tyr * AAC TTG	GAG Pro GAG CTC Glu 60 * ATG TAC Met 1110 * TAT	AGC TCG Ser * TCT AGA Ser * AAG TTC Lys	* ATT TAA Ile 1020 * GCT CGA Ala TGT ACA Cys * CTC	TTG AAC Leu GTG CAC Val 070 * TCT AGA Ser 11 TAC	X ACT TGA Thr TGG ACC Trp 20 * TAT ATA	GAA CTT Glu 10: GAG CTC Glu * CTC GAG Leu *	TTT Lys 30 * CTT GAA Leu 1080 * CCT GGA Pro	TGC ACG Cys * CAA GTT Gln GGA CCT Gly 130 * AGA	ATC TAG Ile 1 TGC ACG Cys * AGG TCC Arg	AGT Ser 040 * ATT TAA Ile 10 AAT TTA Asn * CTG	TGG ACC Trp ACC TGG Thr 1140 *	GGT Pro * CAC GTG His * AGT TCA Ser	GAA CTT Glu 1050 * AAC TTG ASN 1 CCC GGG Pro	GGT CCA Gly CTG GAC Leu 100 * GAC CTG Asp	CTA Asp> * AGC TCG Ser> ACT TGA Thr> 50 *

Title: RECEPTOR BASED ANTAGONISTS
ND METHODS OF MAKING AND TOTAL INC.

mventor: STAHL, et al. Docket No.: REG 203-A

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Fig.31D.

1180 1190 1160 1170 TGT GAA AAC ATC TTT AGA GAA GGC CAA TAC TTT GGT TGT TCC TTT GAT ACA CTT TTG TAG AAA TCT CTT CCG GTT ATG AAA CCA ACA AGG AAA CTA Cys Glu Asn Ile Phe Arg Glu Gly Gln Tyr Phe Gly Cys Ser Phe Asp> 1230 1240 1220 1210 CTG ACC AAA GTG AAG GAT TCC AGT TTT GAA CAA CAC AGT GTC CAA ATA GAC TGG TTT CAC TTC CTA AGG TCA AAA CTT GTT GTG TCA CAG GTT TAT Leu Thr Lys Val Lys Asp Ser Ser Phe Glu Gln His Ser Val Gln Ile> 1280 1.2.90 1250 1260 1270 ATG GTC AAG GAT AAT GCA GGA AAA ATT AAA CCA TCC TTC AAT ATA GTG TAC CAG TTC CTA TTA CGT CCT TTT TAA TTT GGT AGG AAG TTA TAT CAC Met Val Lys Asp Asn Ala Gly Lys Ile Lys Pro Ser Phe Asn Ile Val> 1330 1340 1300 1310 $\cdot 1320$ CCT TTA ACT TCC CGT GTG AAA CCT GAT CCT CCA CAT ATT AAA AAC CTC GGA AAT TGA AGG GCA CAC TTT GGA CTA GGA GGT GTA TAA TTT TTG GAG Pro Leu Thr Ser Arg Val Lys Pro Asp Pro Pro His Ile Lys Asn Leu> 1350 1370 1380 1390 1360 TCC TTC CAC AAT GAT GAC CTA TAT GTG CAA TGG GAG AAT CCA CAG AAT AGG AAG GTG TTA CTA CTG GAT ATA CAC GTT ACC CTC TTA GGT GTC TTA Ser Phe His Asn Asp Asp Leu Tyr Val Gln Trp Glu Asn Pro Gln Asn> 1420 1430 1410 1400 TTT ATT AGC AGA TGC CTA TTT TAT GAA GTA GAA GTC AAT AAC AGC CAA AAA TAA TCG TCT ACG GAT AAA ATA CTT CAT CTT CAG TTA TTG TCG GTT Phe Ile Ser Arg Cys Leu Phe Tyr Glu Val Glu Val Asn Asn Ser Gln> 1460 1470 1480 1450 ACT GAG ACA CAT AAT GTT TTC TAC GTC CAA GAG GCT AAA TGT GAG AAT TGA CTC TGT GTA TTA CAA AAG ATG CAG GTT CTC CGA TTT ACA CTC TTA Thr Glu Thr His Asn Val Phe Tyr Val Gln Glu Ala Lys Cys Glu Asn> 1520 1530 1510 1490 1500 CCA GAA TTT GAG AGA AAT GTG GAG AAT ACA TCT TGT TTC ATG GTC CCT GGT CTT AAA CTC TCT TTA CAC CTC TTA TGT AGA ACA AAG TAC CAG GGA Pro Glu Phe Glu Arg Asn Val Glu Asn Thr Ser Cys Phe Met Val Pro> Title: RECEPTOR BASED ANTAGONISTS JD METHODS OF MAKING AND Inventor: STAHL, et al.

Docket No.: REG 203-A

51/59 Fig.31E.

154	0	*	15	50		. 1	560		*	157	7 O	*	15	80	
CCA	GTT CAA	CTT GAA	GGA	GAT CTA	TGA	TTG AAC	AAC TTG	TGT	GTC CAG	TCT	ATA TAT	AGA TCT	CAG	AAA TTT	
	.590			160	0 *	*	16	10		*	L620 *		*	163	30
* *	*	TTA.	* TCC	ጥለጥ			CNC		CTC			יים מ		A C C	
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		AGT													
		TCA													TGA Thr>
Giu	Mec	Ser	TTE	GTĀ	пλг	пÃ2	Arg	ASII	Ser		1111	Gry	KSP	БÃ2	1111.
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		TGC ACG													
															Ser>
		-			_										
1720			740			175	50		1 -	760			1770		
1730		. :	L740 *		*	175	50 *	*	1	760 *		*	1770		*
* GTC		* CTC	* TTC		CCA	AAA	* CCC	AAG	GAC	* ACC		* ATG	* ATC		CGG
* GTC CAG	AAG	* CTC GAG	* TTC AAG	GGG	CCA GGT	AAA TTT	* CCC GGG	AAG TTC	GAC CTG	* ACC TGG	GAG	* ATG TAC	* ATC TAG	AGG	CGG GCC
* GTC CAG	AAG	* CTC GAG	* TTC AAG	GGG	CCA GGT	AAA TTT	* CCC GGG	AAG TTC	GAC CTG	* ACC TGG	GAG	* ATG TAC	* ATC TAG	AGG	CGG
* GTC CAG	AAG Phe 30	* CTC GAG Leu	* TTC AAG Phe	GGG Pro 790	CCA GGT	AAA TTT Lys	* CCC GGG Pro	AAG TTC	GAC CTG Asp	* ACC TGG	GAG Leu 10	* ATG TAC Met	* ATC TAG Ile	AGG Ser B20	CGG GCC
* GTC CAG Val	AAG Phe 80 *	* CTC GAG Leu	* TTC AAG Phe	GGG Pro 790 *	CCA GGT Pro	AAA TTT Lys *	* CCC GGG Pro 1800	AAG TTC Lys	GAC CTG Asp	* ACC TGG Thr	GAG Leu 10 *	* ATG TAC Met	* ATC TAG Ile	AGG Ser B20 *	CGG GCC Arg>
* GTC CAG Val 178	AAG Phe 30 * CCT	* CTC GAG Leu * GAG	* TTC AAG Phe 1'	GGG Pro 790 * ACA	CCA GGT Pro	AAA TTT Lys * GTG	* CCC GGG Pro 1800 * GTG	AAG TTC Lys GTG	GAC CTG Asp * GAC	* ACC TGG Thr 18	GAG Leu 10 * AGC	* ATG TAC Met	* ATC TAG Ile	AGG Ser B20 * GAC	CGG GCC Arg>
* GTC CAG Val 178 ACC TGG	AAG Phe 30 * CCT GGA	* CTC GAG Leu * GAG CTC	* TTC AAG Phe 1' GTC CAG	GGG Pro 790 * ACA TGT	CCA GGT Pro TGC ACG	AAA TTT Lys * GTG CAC	CCC GGG Pro 1800 * GTG CAC	AAG TTC Lys GTG CAC	GAC CTG Asp * GAC CTG	* ACC TGG Thr 18	GAG Leu 10 * AGC TCG	* ATG TAC Met * CAC GTG	* ATC TAG Ile 1: GAA CTT	AGG Ser B20 * GAC CTG	CGG GCC Arg>
GTC CAG Val 178 ACC TGG	AAG Phe 30 * CCT GGA	CTC GAG Leu * GAG CTC Glu	* TTC AAG Phe 1' GTC CAG	GGG Pro 790 * ACA TGT Thr	CCA GGT Pro TGC ACG Cys	AAA TTT Lys * GTG CAC Val	CCC GGG Pro 1800 * GTG CAC Val	AAG TTC Lys GTG CAC Val	GAC CTG Asp * GAC CTG Asp	* ACC TGG Thr 18: GTG CAC Val	GAG Leu 10 * AGC TCG Ser 1860	* ATG TAC Met CAC GTG His	* ATC TAG Ile 1: GAA CTT Glu	AGG Ser B20 * GAC CTG Asp	CGG GCC Arg> CCT GGA Pro>
* GTC CAG Val 17: ACC TGG Thr	AAG Phe 30 * CCT GGA Pro 1830 *	CTC GAG Leu * GAG CTC Glu	* TTC AAG Phe 1' GTC CAG Val	GGG Pro 790 * ACA TGT Thr	CCA GGT Pro TGC ACG Cys	AAA TTT Lys * GTG CAC Val	CCC GGG Pro 1800 * GTG CAC Val	AAG TTC Lys GTG CAC Val	GAC CTG Asp * GAC CTG Asp	* ACC TGG Thr 18: GTG CAC Val	GAG Leu 10 * AGC TCG Ser 1860	* ATG TAC Met CAC GTG His	* ATC TAG Ile 1: GAA CTT Glu	AGG Ser B20 * GAC CTG Asp	CGG GCC Arg> CCT GGA Pro> 70 *
* GTC CAG Val 178 ACC TGG Thr * GAG	AAG Phe CCT GGA Pro 1830 *	* CTC GAG Leu * GAG CTC Glu	* TTC AAG Phe 1' GTC CAG Val * TTC	GGG Pro 790 * ACA TGT Thr 18	CCA GGT Pro TGC ACG Cys 40 *	AAA TTT Lys * GTG CAC Val	CCC GGG Pro 1800 * GTG CAC Val	AAG TTC Lys GTG CAC Val 850 *	GAC CTG Asp * GAC CTG Asp	* ACC TGG Thr 18 GTG CAC Val * GTG	GAG Leu 10 * AGC TCG Ser 1860 *	* ATG TAC Met CAC GTG His	* ATC TAG Ile 1: GAA CTT Glu * CAT	AGG Ser B20 * GAC CTG Asp 18	CGG GCC Arg> CCT GGA Pro> 70 * GCC
* GTC CAG Val 17: ACC TGG Thr * GAG CTC	AAG Phe 30 * CCT GGA Pro 1830 * GTC CAG	CTC GAG Leu * GAG CTC Glu AAG TTC	* TTC AAG Phe 1' GTC CAG Val * TTC AAG	GGG Pro 790 * ACA TGT Thr 186	CCA GGT Pro TGC ACG Cys 40 * TGG ACC	AAA TTT Lys * GTG CAC Val * TAC	CCC GGG Pro 1800 * GTG CAC Val	AAG TTC Lys GTG CAC Val	GAC CTG Asp * GAC CTG Asp	* ACC TGG Thr 18 GTG CAC Val * GTG CAC	GAG Leu 10 * AGC TCG Ser 1860 * GAG CTC	* ATG TAC Met CAC GTG His	* ATC TAG Ile 1: GAA CTT Glu * CAT GTA	AGG Ser 820 * GAC CTG Asp 18	CGG GCC Arg> CCT GGA Pro> 70 * GCC CGG
* GTC CAG Val 17: ACC TGG Thr * GAG CTC	AAG Phe CCT GGA Pro 1830 * GTC CAG Val	* CTC GAG Leu * GAG CTC Glu AAG TTC Lys	* TTC AAG Phe 1' GTC CAG Val * TTC AAG	GGG Pro 790 * ACA TGT Thr 184 AAC TTG ASn	CCA GGT Pro TGC ACG Cys * TGG ACC	AAA TTT Lys * GTG CAC Val * TAC ATG	CCC GGG Pro 1800 * GTG CAC Val	AAG TTC Lys GTG CAC Val 850 * GAC CTG Asp	GAC CTG Asp * GAC CTG Asp GGC CCG Gly	* ACC TGG Thr 18 GTG CAC Val * GTG CAC	GAG Leu 10 * AGC TCG Ser 1860 * GAG CTC Glu	* ATG TAC Met * CAC GTG His GTG CAC Val	* ATC TAG Ile 1: GAA CTT Glu * CAT GTA	AGG Ser 820 * GAC CTG Asp 18	CGG GCC Arg> CCT GGA Pro> 70 * GCC CGG Ala>
* GTC CAG Val 17: ACC TGG Thr * GAG CTC	AAG Phe CCT GGA Pro 1830 * GTC CAG Val	CTC GAG Leu * GAG CTC Glu AAG TTC	* TTC AAG Phe 1' GTC CAG Val * TTC AAG	GGG Pro 790 * ACA TGT Thr 184 AAC TTG ASn	CCA GGT Pro TGC ACG Cys * TGG ACC Trp	AAA TTT Lys * GTG CAC Val * TAC ATG	CCC GGG Pro 1800 * GTG CAC Val GTG CAC Val	AAG TTC Lys GTG CAC Val 850 * GAC CTG Asp	GAC CTG Asp * GAC CTG Asp GGC CCG Gly	* ACC TGG Thr 18 GTG CAC Val * GTG CAC	GAG Leu 10 * AGC TCG Ser 1860 * GAG CTC Glu	* ATG TAC Met CAC GTG His GTG CAC Val	* ATC TAG Ile 1: GAA CTT Glu * CAT GTA	AGG Ser 820 * GAC CTG Asp 18	CGG GCC Arg> CCT GGA Pro> GCC CGG Ala>
* GTC CAG Val 17: ACC TGG Thr * GAG CTC Glu * AAG	AAG Phe CCT GGA Pro 1830 * GTC CAG Val	* CTC GAG Leu * GAG CTC Glu AAG TTC Lys 880 * AAG	* TTC AAG Phe 1' GTC CAG Val * TTC AAG Phe	GGG Pro 790 * ACA TGT Thr 18- AAC TTG ASn * CGG	CCA GGT Pro TGC ACG CYs TGG ACC Trp	AAA TTT Lys * GTG CAC Val * TAC ATG TYr	CCC GGG Pro 1800 * GTG CAC Val GTG CAC Val	AAG TTC Lys GTG CAC Val S50 * GAC CTG Asp 19	GAC CTG Asp * GAC CTG Asp GGC CCG Gly	* ACC TGG Thr 18: GTG CAC Val * GTG CAC Val AGC	GAG Leu 10 * AGC TCG Ser 1860 CTC Glu 1 ACG	* ATG TAC Met * CAC GTG His GTG CAC Val 910 * TAC	* ATC TAG Ile 1: GAA CTT Glu * CAT GTA His	AGG Ser 820 * GAC CTG Asp 18 AAT TTA Asn * GTG	CGG GCC Arg> CCT GGA Pro> GCC CGG Ala> 1920 * GTC
* GTC CAG Val 17: ACC TGG Thr * GAG CTC Glu * AAG	AAG Phe 30 * CCT GGA Pro 1830 * GTC CAG Val 1 ACA TGT	* CTC GAG Leu * GAG CTC Glu AAG TTC Lys 880 * AAG	* TTC AAG Phe 1' GTC CAG Val * TTC AAG Phe CCG GGC	GGG Pro 790 * ACA TGT Thr 18- AAC TTG Asn * CGG GCC	CCA GGT Pro TGC ACG CYS TGG ACC Trp 1890 *	AAA TTT Lys * GTG CAC Val * TAC ATG TYr GAG CTC	CCC GGG Pro 1800 * GTG CAC Val GTG CAC Val	AAG TTC Lys GTG CAC Val S50 * GAC CTG Asp 19 TAC ATG	GAC CTG Asp * GAC CTG Asp GGC CCG Gly 00 * AAC TTG	* ACC TGG Thr 18: GTG CAC Val * GTG CAC Val AGC TCG	GAG Leu 10 * AGC TCG Ser 1860 CTC Glu 1 ACG	* ATG TAC Met * CAC GTG His GTG CAC Val 910 * TAC ATG	* ATC TAG Ile 1: GAA CTT Glu * CAT GTA His	AGG Ser 820 * GAC CTG Asp 18 AAT TTA Asn * GTG CAC	CGG GCC Arg> CCT GGA Pro> GCC CGG Ala> 1920 *

Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND MINERAL PROPERTY OF THE PROPERTY OF

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Fig.31F.

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	N.C.C	CMC	CMC	200	ama	ama	030	CNC	CAC	maa	CTG	חתת	CCC	אאכ	CNC	m x C
											GAC					
	Ser	Val	Leu	Thr	٧al	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr>
10	70		1	980			199	۸.		2.0	000			2010		
15			_				133			2 (*		*	*		at.
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	CTG GAC	GTC CAG	* AAA TTT	CCG	* TTC AAG	* TAT ATA	GGG	AGC TCG	GAC CTG	* ATC TAG	GCC CGG	GTG CAC	* GAG CTC	ACC	* GAG CTC	* AGC
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	CTG GAC	GTC CAG	* AAA TTT Lys	CCG Gly	* TTC AAG	* TAT ATA Tyr	GGG Pro	AGC TCG	GAC CTG Asp	* ATC TAG Ile	GCC CGG	GTG CAC	* GAG CTC Glu	ACC Trp	* GAG CTC	* AGC TCG
	CTG GAC Leu	GTC CAG Val	* AAA TTT Lys 21	CCG Gly 70 *	* TTC AAG Phe	* TAT ATA Tyr	GGG Pro 180 *	AGC TCG Ser	GAC CTG Asp	* ATC TAG Ile 2190 *	GCC CGG Ala	GTG CAC Val	* GAG CTC Glu	ACC Trp 00 *	* GAG CTC Glu *	* AGC TCG Ser>
	CTG GAC Leu AAT	GTC CAG Val * GGG	* AAA TTT Lys 21	CCG Gly 70 * CCG	* TTC AAG Phe *	* TAT ATA TYr 2:	GGG Pro 180 * AAC	AGC TCG Ser	GAC CTG Asp *	* ATC TAG Ile 2190 * ACC	GCC CGG Ala	GTG CAC Val	* GAG CTC Glu 22	ACC Trp 00 * GTG	* GAG CTC Glu * CTG	* AGC TCG Ser>
	CTG GAC Leu AAT TTA	GTC CAG Val * GGG CCC	* AAA TTT Lys 21 CAG GTC	CCG Gly 70 * CCG GGC	* TTC AAG Phe * GAG CTC	TAT ATA Tyr AAC TTG	GGG Pro 180 * AAC TTG	AGC TCG Ser TAC ATG	GAC CTG Asp * AAG TTC	* ATC TAG Ile 2190 * ACC TGG	GCC CGG Ala ACG TGC	GTG CAC Val * CCT GGA	GAG CTC Glu 220 CCC GGG	ACC Trp 00 * GTG CAC	* GAG CTC Glu * CTG GAC	* AGC TCG Ser> GAC CTG
	CTG GAC Leu AAT TTA	GTC CAG Val * GGG CCC	* AAA TTT Lys 21 CAG GTC	CCG Gly 70 * CCG GGC	* TTC AAG Phe * GAG CTC	TAT ATA Tyr AAC TTG	GGG Pro 180 * AAC TTG	AGC TCG Ser TAC ATG	GAC CTG Asp * AAG TTC	* ATC TAG Ile 2190 * ACC TGG	GCC CGG Ala ACG TGC	GTG CAC Val * CCT GGA	GAG CTC Glu 220 CCC GGG	ACC Trp 00 * GTG CAC	* GAG CTC Glu * CTG GAC	* AGC TCG Ser>
	CTG GAC Leu AAT TTA	GTC CAG Val * GGG CCC	* AAA TTT Lys 21 CAG GTC	CCG Gly 70 * CCG GGC	* TTC AAG Phe * GAG CTC	TAT ATA Tyr AAC TTG	GGG Pro 180 * AAC TTG	AGC TCG Ser TAC ATG	GAC CTG Asp * AAG TTC	* ATC TAG Ile 2190 * ACC TGG	GCC CGG Ala ACG TGC	GTG CAC Val * CCT GGA	GAG CTC Glu 220 CCC GGG	ACC Trp 00 * GTG CAC	* GAG CTC Glu * CTG GAC	* AGC TCG Ser> GAC CTG
23	CTG GAC Leu AAT TTA Asn	GTC CAG Val * GGG CCC	* AAA TTT Lys 21 CAG GTC GIn	CCG Gly 70 * CCG GGC Pro	* TTC AAG Phe * GAG CTC	TAT ATA Tyr AAC TTG	GGG Pro 180 * AAC TTG Asn	AGC TCG Ser TAC ATG Tyr	GAC CTG Asp * AAG TTC	ATC TAG Ile 2190 * ACC TGG	GCC CGG Ala ACG TGC Thr	GTG CAC Val * CCT GGA	* GAG CTC Glu 220 CCC GGG Pro	ACC Trp 00 * GTG CAC Val	* GAG CTC Glu * CTG GAC	* AGC TCG Ser> GAC CTG
22	CTG GAC Leu AAT TTA Asn	GTC CAG Val * GGG CCC	* AAA TTT Lys 21 CAG GTC Gln	CCG Gly 70 * CCG GGC Pro	* TTC AAG Phe * GAG CTC	* TAT ATA TYr 2: AAC TTG Asn	GGG Pro 180 * AAC TTG	AGC TCG Ser TAC ATG Tyr	GAC CTG Asp * AAG TTC Lys	ATC TAG Ile 2190 * ACC TGG	GCC CGG Ala ACG TGC Thr	GTG CAC Val * CCT GGA	* GAG CTC Glu 220 CCC GGG Pro	ACC Trp 00 * GTG CAC	* GAG CTC Glu * CTG GAC	* AGC TCG Ser> GAC CTG
22	CTG GAC Leu AAT TTA Asn 210	GTC CAG Val * GGG CCC Gly	* AAA TTT Lys 21 CAG GTC Gln *	CCG Gly 70 * CCG GGC Pro	TTC AAG Phe * GAG CTC Glu	* TAT ATA TYr 2: AAC TTG Asn	GGG Pro 180 * AAC TTG Asn	AGC TCG Ser TAC ATG Tyr	GAC CTG Asp * AAG TTC Lys	ATC TAG Ile 2190 ACC TGG Thr	GCC CGG Ala ACG TGC Thr	GTG CAC Val * CCT GGA Pro	* GAG CTC Glu 220 CCC GGG Pro	ACC Trp 00 * GTG CAC Val 2250	* GAG CTC Glu * CTG GAC Leu	* AGC TCG Ser> GAC CTG Asp>
22	CTG GAC Leu AAT TTA Asn 210 *	GTC CAG Val * GGG CCC Gly	* AAA TTT Lys 21 CAG GTC GIn * GGC	CCG Gly 70 * CCG GGC Pro 2220 *	TTC AAG Phe * GAG CTC Glu	* TAT ATA TYT 2: AAC TTG Asn * TTC	GGG Pro 180 * AAC TTG Asn 22:	AGC TCG Ser TAC ATG Tyr	GAC CTG Asp * AAG TTC Lys	ATC TAG Ile 2190 ACC TGG Thr AAG	GCC CGG Ala ACG TGC Thr 240 *	GTG CAC Val * CCT GGA Pro	* GAG CTC Glu 22 CCC GGG Pro * GTG	ACC Trp 00 * GTG CAC Val 2250 *	* GAG CTC Glu * CTG GAC Leu	* AGC TCG Ser> GAC CTG Asp> * AGC
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG	GTC CAG Val * GGG CCC Gly	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG	TTC AAG Phe * GAG CTC Glu TTC AAG	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG	GGG Pro 180 * AAC TTG Asn 22: CTC GAG	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA	GAC CTG Asp * AAG TTC Lys * AGC TCG	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG	GTG CAC Val * CCT GGA Pro	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG	* GAG CTC Glu * CTG GAC Leu AAG TTC	* AGC TCG Ser> GAC CTG Asp> * AGC TCG
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG	GTC CAG Val * GGG CCC Gly	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG	TTC AAG Phe * GAG CTC Glu TTC AAG	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG	GGG Pro 180 * AAC TTG Asn 22: CTC GAG	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA	GAC CTG Asp * AAG TTC Lys * AGC TCG	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG	GTG CAC Val * CCT GGA Pro	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG	* GAG CTC Glu * CTG GAC Leu AAG TTC	* AGC TCG Ser> GAC CTG Asp> * AGC TCG
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG	GTC CAG Val * GGG CCC Gly	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG	TTC AAG Phe * GAG CTC Glu TTC AAG	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG	GGG Pro 180 * AAC TTG Asn 22: CTC GAG	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA	GAC CTG Asp * AAG TTC Lys * AGC TCG	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG	GTG CAC Val * CCT GGA Pro	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG	* GAG CTC Glu * CTG GAC Leu AAG TTC	* AGC TCG Ser> GAC CTG Asp> * AGC
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG Ser	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser	TTC AAG Phe GAG CTC Glu TTC AAG Phe	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA Tyr	GAC CTG Asp * AAG TTC Lys * AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG Leu	GTG CAC Val * CCT GGA Pro ACC TGG	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys	* AGC TCG Ser> GAC CTG Asp> * AGC TCG
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC Gln * GGC CCG Gly	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser	TTC AAG Phe GAG CTC Glu TTC AAG Phe	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA Tyr	GAC CTG Asp * AAG TTC Lys * AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC Lys	GCC CGG Ala ACG TGC Thr 240 * CTC GAG	GTG CAC Val * CCT GGA Pro ACC TGG Thr	* GAG CTC Glu 22 CCC GGG Pro * GTG CAC Val	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys	* AGC TCG Ser> GAC CTG Asp> * AGC TCG
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG Ser	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG Gly	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser	TTC AAG Phe GAG CTC Glu TTC AAG Phe	* TAT ATA TYT 2: AAC TTG Asn * TTC AAG Phe	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA Tyr 2280	GAC CTG Asp * AAG TTC Lys AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC Lys	GCC CGG Ala ACG TGC Thr 240 * CTC GAG Leu	GTG CAC Val * CCT GGA Pro ACC TGG Thr	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC Val	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys 300 *	* AGC TCG Ser> GAC CTG Asp> * AGC TCG Ser>
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG Ser 22	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG Gly CAG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser 2:	TTC AAG Phe GAG CTC Glu TTC AAG Phe 270 * GGG	* TAT ATA TYT 2: AAC TTG ASn * TTC AAG Phe	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA Tyr 2280 *	GAC CTG Asp * AAG TTC Lys * AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC Lys * TGC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG Leu 229	GTG CAC Val * CCT GGA Pro ACC TGG Thr	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC Val	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp 2	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys 300 * GAG	* AGC TCG Ser> GAC CTG Asp> * AGC TCG Ser>
22	CTG GAC Leu AAT TTA Asn 210 * TCC AGG Ser 22	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC GIn * GGC CCG Gly CAG	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser 2:	TTC AAG Phe GAG CTC Glu TTC AAG Phe 270 * GGG	* TAT ATA TYT 2: AAC TTG ASn * TTC AAG Phe	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu	AGC TCG Ser TAC ATG Tyr 30 * TAT ATA Tyr 2280 *	GAC CTG Asp * AAG TTC Lys * AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr AAG TTC Lys * TGC	GCC CGG Ala ACG TGC Thr 240 * CTC GAG Leu 229	GTG CAC Val * CCT GGA Pro ACC TGG Thr	* GAG CTC Glu 222 CCC GGG Pro * GTG CAC Val	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp 2	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys 300 * GAG	* AGC TCG Ser> GAC CTG Asp> * AGC TCG Ser>
22	AAT TTA ASN 210 * TCC AGG Ser 220 AGG TCC	GTC CAG Val * GGG CCC Gly GAC CTG Asp	* AAA TTT Lys 21 CAG GTC Gln * GGC CCG Gly CAG GTC	CCG Gly 70 * CCG GGC Pro 2220 * TCC AGG Ser 23	TTC AAG Phe * GAG CTC Glu TTC AAG Phe 270 * GGG CCC	* TAT ATA TYT 2: AAC TTG ASN * TTC AAG Phe	GGG Pro 180 * AAC TTG Asn 22: CTC GAG Leu * GTC CAG	TAC ATG TYT TAT ATA TYT 2280 TTC AAG	GAC CTG Asp * AAG TTC Lys AGC TCG Ser	ATC TAG Ile 2190 * ACC TGG Thr 2: AAG TTC Lys * TGC ACG	GCC CGG Ala ACG TGC Thr CTC GAG Leu 22:	CTG Val * CCT GGA Pro ACC TGG Thr GTG CAC	* GAG CTC Glu 22 CCC GGG Pro * GTG CAC Val ATG TAC	ACC Trp 00 * GTG CAC Val 2250 * GAC CTG Asp 2	* GAG CTC Glu * CTG GAC Leu AAG TTC Lys 300 * GAG CTC	* AGC TCG Ser> GAC CTG Asp> * AGC TCG Ser>

Title: RECEPTOR BASED ANTAGONISTS IND METHODS OF MAKING AND UNIVERSITY

Aventor: STAHL, et al. Docket No.: REG 203-A

53/59



Fig.31G.

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys>

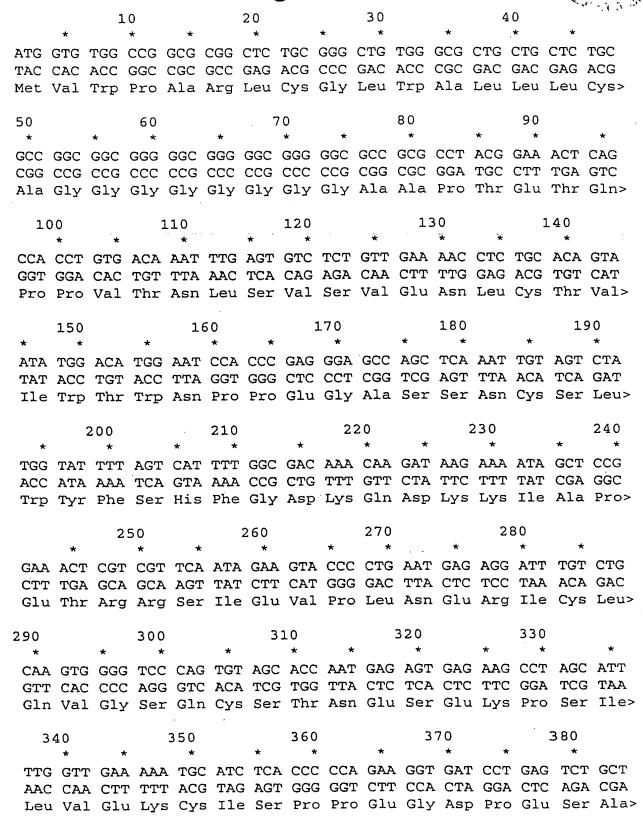
TGA ACT Title: RECEPTOR BASED ANTAGONISTS

ND METHODS OF MAKING AND SINCE

Anventor: STAHL, et al. Docket No.: REG 203-A

54/59

Fig.32A.



Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING ANITOSING Inventor: STAHL, et al. Docket No.: REG 203-A

55/59

Fig.32B.

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Title: RECEPTOR BASED ANTAGONISTS
AND METHODS OF MAKING AND USING
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56/59

### Fig.32C.

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Title: RECEPTOR BASED ANTAGONISTS D METHODS OF MAKING AND Usentor: STAHL, et al.
Docket No.: REG 203-A

## Fig.32D.

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* AAG	* CCC		GAG	CAT	* GTG	AAA	CCC	* AGG		* CCA	* GGA		CTG	ACA	* GTT
* AAG TTC	* CCC GGG	TCG	GAG CTC	CAT GTA	* GTG CAC	AAA TTT	CCC	* AGG TCC	CGG	* CCA GGT	* GGA CCT	TTG	CTG GAC	ACA TGT	* GTT CAA
* AAG TTC	* CCC GGG	TCG	GAG CTC	CAT GTA	* GTG CAC	AAA TTT	CCC	* AGG TCC	CGG	* CCA GGT	* GGA CCT	TTG	CTG GAC	ACA TGT	* GTT
* AAG TTC	* CCC GGG Pro	TCG Ser	GAG CTC	CAT GTA His	* GTG CAC Val	AAA TTT	CCC	* AGG TCC Arg	CGG Ala	* CCA GGT	* GGA CCT Gly	TTG Asn	CTG GAC	ACA TGT Thr	* GTT CAA Val>
* AAG TTC	* CCC GGG Pro	TCG	GAG CTC	CAT GTA His	* GTG CAC Val	AAA TTT	CCC GGG Pro	* AGG TCC	CGG Ala	* CCA GGT Pro	* GGA CCT Gly	TTG Asn 130	CTG GAC	ACA TGT Thr	* GTT CAA Val>
* AAG TTC Lys	* CCC GGG Pro	TCG Ser 100	GAG CTC Glu	CAT GTA His	* GTG CAC Val 1410 *	AAA TTT Lys	CCC GGG Pro	* AGG TCC Arg	CGG Ala 20	* CCA GGT Pro	GGA CCT Gly	TTG Asn 430	CTG GAC Leu	ACA TGT Thr	* GTT CAA Val>
* AAG TTC Lys  * CAC	CCC GGG Pro	TCG Ser 100 *	GAG CTC Glu GTC	CAT GTA His *	* GTG CAC Val 1410  * GAC	AAA TTT Lys	CCC GGG Pro * CTG	* AGG TCC Arg 142	CGG Ala 20 * CTG	* CCA GGT Pro  * ACC	GGA CCT Gly 14	TTG Asn 430 * AGC	CTG GAC Leu	ACA TGT Thr	GTT CAA Val> L440 * TAT
* AAG TTC Lys  * CAC GTG	CCC GGG Pro	TCG Ser 100 * AAT TTA	GAG CTC Glu GTC CAG	CAT GTA His * TCC AGG	GTG CAC Val 1410 * GAC CTG	AAA TTT Lys ACT TGA	CCC GGG Pro * CTG GAC	* AGG TCC Arg 142 CTG GAC	CGG Ala 20 * CTG GAC	* CCA GGT Pro  * ACC TGG	GGA CCT Gly 14 TGG ACC	TTG Asn 130 * AGC TCG	CTG GAC Leu AAC TTG	ACA TGT Thr * CCG GGC	GTT CAA Val> L440 * TAT ATA
* AAG TTC Lys  * CAC GTG	CCC GGG Pro	TCG Ser 100 * AAT TTA	GAG CTC Glu GTC CAG	CAT GTA His * TCC AGG	GTG CAC Val 1410 * GAC CTG	AAA TTT Lys ACT TGA	CCC GGG Pro * CTG GAC	* AGG TCC Arg 142 CTG GAC	CGG Ala 20 * CTG GAC	* CCA GGT Pro  * ACC TGG	GGA CCT Gly 14 TGG ACC	TTG Asn 130 * AGC TCG	CTG GAC Leu AAC TTG	ACA TGT Thr * CCG GGC	GTT CAA Val> L440 * TAT
* AAG TTC Lys  * CAC GTG	CCC GGG Pro	TCG Ser 100 * AAT TTA	GAG CTC Glu GTC CAG	CAT GTA His * TCC AGG	GTG CAC Val 1410 * GAC CTG	AAA TTT Lys ACT TGA	CCC GGG Pro * CTG GAC	* AGG TCC Arg 142 CTG GAC	CGG Ala 20 * CTG GAC	* CCA GGT Pro  * ACC TGG	GGA CCT Gly 14 TGG ACC	TTG Asn 130 * AGC TCG	CTG GAC Leu AAC TTG	ACA TGT Thr * CCG GGC	GTT CAA Val> L440 * TAT ATA
* AAG TTC Lys  * CAC GTG	CCC GGG Pro	TCG Ser 100 * AAT TTA	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA	CCC GGG Pro * CTG GAC	* AGG TCC Arg 142 CTG GAC Leu	CGG Ala 20 * CTG GAC	* CCA GGT Pro  * ACC TGG	GGA CCT Gly 14 TGG ACC	TTG Asn 430 * AGC TCG Ser	CTG GAC Leu AAC TTG Asn	ACA TGT Thr * CCG GGC	GTT CAA Val> L440 * TAT ATA
* AAG TTC Lys  * CAC GTG	CCC GGG Pro	TCG Ser 400 * AAT TTA Asn	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA Thr	CCC GGG Pro * CTG GAC	* AGG TCC Arg 142 CTG GAC Leu	CGG Ala 20 * CTG GAC Leu	* CCA GGT Pro  * ACC TGG	GGA CCT Gly 14 TGG ACC	TTG Asn 130 * AGC TCG	CTG GAC Leu AAC TTG Asn	ACA TGT Thr * CCG GGC	GTT CAA Val> L440 * TAT ATA
* AAG TTC Lys  * CAC GTG His	CCC GGG Pro 14 ACC TGG Thr	TCG Ser 400 * AAT TTA Asn	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG Ser	GTG CAC Val 1410  GAC CTG Asp	AAA TTT Lys ACT TGA Thr	CCC GGG Pro * CTG GAC Leu	* AGG TCC Arg 142 CTG GAC Leu *	CGG Ala 20 * CTG GAC Leu	CCA GGT Pro * ACC TGG Thr	* GGA CCT Gly  TGG ACC Trp	TTG Asn 430 * AGC TCG Ser	CTG GAC Leu AAC TTG Asn	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr>
* AAG TTC Lys  * CAC GTG His	CCC GGG Pro 14 ACC TGG Thr	TCG Ser 100 * AAT TTA Asn 149	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG Ser	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA Thr 160 *	CCC GGG Pro * CTG GAC Leu	* AGG TCC Arg 142 CTG GAC Leu * CAT	CGG Ala 20 * CTG GAC Leu 1470 *	CCA GGT Pro * ACC TGG Thr	* GGA CCT Gly  TGG ACC Trp  * TAT	TTG Asn 430 * AGC TCG Ser 148	CTG GAC Leu AAC TTG Asn 30 *	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr>
* AAG TTC Lys  * CAC GTG His	CCC GGG Pro 14 ACC TGG Thr *	TCG Ser 100 * AAT TTA Asn 149 GAC CTG	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA Thr 460 * TAT ATA	CCC GGG Pro * CTG GAC Leu AAT TTA	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG	CCA GGT Pro * ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp	TTG Asn 430 * AGC TCG Ser 148 GCA CGT	CTG GAC Leu AAC TTG Asn * GTC CAG	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr> ATT
* AAG TTC Lys  * CAC GTG His	CCC GGG Pro 14 ACC TGG Thr *	TCG Ser 100 * AAT TTA Asn 149 GAC CTG	GAG CTC Glu GTC CAG Val	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA Thr 460 * TAT ATA	CCC GGG Pro * CTG GAC Leu AAT TTA	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG	CCA GGT Pro * ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp	TTG Asn 430 * AGC TCG Ser 148 GCA CGT	CTG GAC Leu AAC TTG Asn * GTC CAG	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr>
* AAG TTC Lys  * CAC GTG His	CCC GGG Pro 14 ACC TGG Thr *	TCG Ser 100 * AAT TTA ASN 145 GAC CTG ASP	GAG CTC Glu GTC CAG Val 50 * AAT TTA Asn	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp	AAA TTT Lys ACT TGA Thr 460 * TAT ATA Tyr	CCC GGG Pro * CTG GAC Leu AAT TTA Asn	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG Leu	CCA GGT Pro * ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp	TTG Asn 430 * AGC TCG Ser 148 GCA CGT	CTG GAC Leu AAC TTG Asn * GTC CAG	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr> ATT
* AAG TTC Lys  * CAC GTG His  CCC GGG Pro	CCC GGG Pro 14 ACC TGG Thr *	TCG Ser 100 * AAT TTA Asn 149 GAC CTG Asp	GAG CTC Glu GTC CAG Val 50 * AAT TTA Asn	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp  CTG GAC Leu	AAA TTT Lys ACT TGA Thr 460 * TAT ATA	CCC GGG Pro * CTG GAC Leu AAT TTA Asn	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA His	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG Leu	CCA GGT Pro * ACC TGG Thr ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp	TTG Asn 430 * AGC TCG Ser 148 GCA CGT Ala	CTG GAC Leu AAC TTG Asn * GTC CAG	ACA TGT Thr * CCG GGC Pro	GTT CAA Val> L440 * TAT ATA Tyr> ATT
* AAG TTC Lys  * CAC GTG His  CCC GGG Pro  1490 *	CCC GGG Pro 14 ACC TGG Thr * CCT GGA Pro	TCG Ser 100 * AAT TTA Asn 149 GAC CTG Asp	GAG CTC Glu GTC CAG Val 50 * AAT TTA Asn	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp  CTG GAC Leu	AAA TTT Lys ACT TGA Thr 160 * TAT ATA Tyr	CCC GGG Pro * CTG GAC Leu AAT TTA Asn	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA His	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG Leu	CCA GGT Pro * ACC TGG Thr ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp * TAT ATA Tyr	TTG Asn 430 * AGC TCG Ser 148 GCA CGT Ala	AAC TTG Asn GTC CAG Val	ACA TGT Thr * CCG GGC Pro * AAC TTG Asn	* GTT CAA Val> L440 * TAT ATA Tyr> ATT TAA Ile>
* AAG TTC Lys  * CAC GTG His  CCC GGG Pro  1490 *	CCC GGG Pro 14 ACC TGG Thr * CCT GGA Pro	TCG Ser 100 * AAT TTA Asn 149 GAC CTG Asp	GAG CTC Glu GTC CAG Val 50 * AAT TTA Asn	CAT GTA His * TCC AGG Ser * TAC ATG	GTG CAC Val 1410 * GAC CTG Asp  CTG GAC Leu	AAA TTT Lys ACT TGA Thr 160 * TAT ATA Tyr	CCC GGG Pro * CTG GAC Leu AAT TTA Asn	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA His	CGG Ala 20 * CTG GAC Leu 1470 * CTC GAG Leu	CCA GGT Pro * ACC TGG Thr ACC TGG Thr	GGA CCT Gly 14 TGG ACC Trp * TAT ATA Tyr	TTG Asn 430 * AGC TCG Ser 148 GCA CGT Ala	AAC TTG Asn GTC CAG Val	ACA TGT Thr * CCG GGC Pro * AAC TTG Asn	* GTT CAA Val> L440 * TAT ATA Tyr> ATT TAA Ile>
* AAG TTC Lys  * CAC GTG His  CCC GGG Pro  1490 * TGG	CCC GGG Pro 14 ACC TGG Thr * CCT GGA Pro	TCG Ser 100 * AAT TTA Asn 145 GAC CTG Asp	GAG CTC Glu GTC CAG Val 50 * AAT TTA Asn	CAT GTA His * TCC AGG Ser * TAC ATG TYr	GTG CAC Val 1410 * GAC CTG Asp CTG GAC Leu * CCG	AAA TTT Lys ACT TGA Thr 460 * TAT ATA TYr 15: GCA	CCC GGG Pro * CTG GAC Leu AAT TTA Asn	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA His	CGG Ala 20 * CTG GAC Leu 1470 CTC GAG Leu 15	CCA GGT Pro * ACC TGG Thr ACC TGG Thr	GGA CCT Gly  TGG ACC Trp  * TAT ATA TYT	TTG Asn  130  * AGC TCG Ser  148 GCA CGT Ala  * AAC	AAC TTG Asn GTC CAG Val	ACA TGT Thr  * CCG GGC Pro  * AAC TTG Asn	TAT TAA Ile>
* AAG TTC Lys  * CAC GTG His  CCC GGG Pro  1490  * TGG ACC	CCC GGG Pro  14  ACC TGG Thr  * CCT GGA Pro  AGT TCA	TCG Ser 100 * AAT TTA Asn 145 GAC CTG Asp * GAA CTT	GAG CTC Glu GTC CAG Val 50 * AAT TTA ASD 1500 *	CAT GTA His  * TCC AGG Ser  TAC ATG TYr  GAC CTG	GTG CAC Val 1410  * GAC CTG Asp  CTG GAC Leu  * CCG GGC	AAA TTT Lys ACT TGA Thr 160 * TAT ATA TYr 15: GCA CGT	CCC GGG Pro  * CTG GAC Leu  AAT TTA Asn 10 * GAT CTA	* AGG TCC Arg 142 CTG GAC Leu * CAT GTA His TTC AAG	CGG Ala  20 * CTG GAC Leu  1470 * CTC GAG Leu  15	CCA GGT Pro * ACC TGG Thr ACC TGG Thr 520 * ATC	* GGA CCT Gly  TGG ACC Trp  * TAT ATA TYT	TTG Asn  130  AGC TCG Ser  148 GCA CGT Ala  * AAC TTG	AAC TTG Asn GTC CAG Val GTG CAC	ACA TGT Thr  * CCG GGC Pro  * AAC TTG Asn	* GTT CAA Val> L440 * TAT ATA Tyr> ATT TAA Ile>

Title: RECEPTOR BASED ANTAGONISTS AND METHODS OF MAKING AND USING Injuntor: STAHL, et al. Docket No.: REG 203-A

Fig.32E.

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	CAC	CAC	CTG	CAC	TCG	GTG										ATG Tyr>
	CAC	CAC Val	CTG Asp	CAC	TCG Ser	GTG His			Pro	Glu		Lys	Phe		Trp	Tyr>
	CAC Val	CAC Val	CTG Asp 880	CAC	TCG Ser	GTG His 1890		Asp		Glu 00	Val	Lys	Phe		Trp	Tyr>
	CAC Val	CAC Val	CTG Asp 80 *	CAC Val	TCG Ser	GTG His 1890	Glu	Asp *	Pro 190	Glu 00 *	Val	Lys 19	Phe 10 *	Asn	Trp	Tyr> L920 *
	CAC Val * GTG	CAC Val 18	CTG Asp 880 * GGC	CAC Val	TCG Ser * GAG	GTG His 1890 * GTG	Glu CAT	Asp * AAT	Pro 190 GCC	Glu 00 * AAG	Val * ACA	Lys 19 AAG	Phe 10 * CCG	Asn CGG	Trp  * GAG	Tyr> L920 * GAG
	CAC Val * GTG CAC	CAC Val 18 GAC CTG	CTG Asp 880 * GGC CCG	CAC Val GTG CAC	TCG Ser * GAG CTC	GTG His 1890 * GTG CAC	Glu CAT GTA	Asp * AAT TTA	Pro 190 GCC CGG	Glu 00 * AAG TTC	val * ACA TGT	Lys 19 AAG TTC	Phe 10 * CCG GGC	Asn CGG GCC	Trp  * GAG CTC	Tyr> L920 * GAG

# Title: RECEPTOR BASED ANTAGONISTS ND METHODS OF MAKING AND WANTAGONISTS Note that the second second

## Fig.32F.

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GIC	ATG	T"I'G	TCG	TGC	ATG	GCA	CAC	CAG	TCG	CAG	GAG	TGG	CAG	GAC	GTG
Gin	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His>
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CAG	GAC	TGG	CTG	AAT	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC	AAC	AAA
GTC	CTG	ACC	GAC	TTA	CCG	TTC	CTC	ATG	TTC	ACG	TTC	CAG	AGG	TTG	ጥጥጥ
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cvs	Lvs	Val	Ser	Asn	Lys>
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GGG	GCT	CTT	GGT	GTC	CAC	ATG	TGG	GAC	GGG	GGT	AGG	GCC	CTC	CTC	TAC
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met>
		120		:	2130			214				L50			2160
*	2:	120		*	2130		*	214	<b>4</b> 0 ★	*	2:	150 *		*	2160
* ACC	2: AAG	120 * AAC	CAG	* GTC	2130 * AGC	CTG	* ACC	214 TGC	10 * CTG	* GTC	2: AAA	L50 * GGC	TTC	* TAT	2160 * CCC
* ACC	2: AAG	120 * AAC	CAG	* GTC	2130 * AGC	CTG	* ACC	214 TGC	10 * CTG	* GTC	2: AAA	L50 * GGC	TTC	* TAT	2160 * CCC
* ACC TGG	AAG TTC	120 * AAC TTG	CAG GTC	* GTC CAG	2130 * AGC TCG	CTG GAC	* ACC TGG	214 TGC ACG	40 * CTG GAC	* GTC CAG	2: AAA TTT	L50 * GGC CCG	TTC AAG	* TAT ATA	2160 * CCC GGG
* ACC TGG	AAG TTC	120 * AAC TTG	CAG GTC	* GTC CAG	2130 * AGC TCG	CTG GAC	* ACC TGG	214 TGC ACG	40 * CTG GAC	* GTC CAG	2: AAA TTT	L50 * GGC CCG	TTC AAG	* TAT ATA	2160 * CCC
* ACC TGG	AAG TTC	120 * AAC TTG	CAG GTC Gln	* GTC CAG	AGC TCG Ser	CTG GAC	* ACC TGG	214 TGC ACG Cys	10 * CTG GAC Leu	* GTC CAG	2: AAA TTT	t50 * GGC CCG Gly	TTC AAG Phe	* TAT ATA	2160 * CCC GGG
* ACC TGG	AAG TTC	120 * AAC TTG Asn	CAG GTC Gln	* GTC CAG	AGC TCG Ser	CTG GAC Leu	* ACC TGG	214 TGC ACG Cys	40 * CTG GAC	* GTC CAG Val	2: AAA TTT	L50 * GGC CCG	TTC AAG Phe	* TAT ATA	2160 * CCC GGG
* ACC TGG Thr	AAG TTC Lys	AAC TTG Asn	CAG GTC Gln 70	* GTC CAG Val	AGC TCG Ser	CTG GAC Leu L80	* ACC TGG Thr	TGC ACG Cys	to to the total terms of the te	* GTC CAG Val	2: AAA TTT Lys	GGC CCG Gly	TTC AAG Phe 00	* TAT ATA Tyr	2160 * CCC GGG Pro>
* ACC TGG Thr	AAG TTC Lys *	120 * AAC TTG Asn 21	CAG GTC Gln 70 *	* GTC CAG Val  * GTG	AGC TCG Ser 21	CTG GAC Leu L80 *	* ACC TGG Thr	TGC ACG Cys	to the total transfer of the transfer of transfer	* GTC CAG Val	AAA TTT Lys *	GGC CCG Gly 220	TTC AAG Phe 00 *	* TAT ATA Tyr  * AAC	2160 * CCC GGG Pro>
* ACC TGG Thr AGC TCG	AAG TTC Lys * GAC CTG	120  * AAC TTG Asn 21	CAG GTC Gln 70 * GCC CGG	* GTC CAG Val  * GTG CAC	AGC TCG Ser 21 GAG CTC	CTG GAC Leu L80 * TGG ACC	* ACC TGG Thr	TGC ACG Cys  * AGC TCG	to the total transfer of the transfer of the transfer of the transfer of trans	* GTC CAG Val	AAA TTT Lys * CAG	GGC CCG Gly CCG GGC	TTC AAG Phe 00 * GAG CTC	* TAT ATA Tyr  * AAC TTG	2160 * CCC GGG Pro> AAC TTG
* ACC TGG Thr AGC TCG	AAG TTC Lys * GAC CTG	120  * AAC TTG Asn 21	CAG GTC Gln 70 * GCC CGG	* GTC CAG Val  * GTG CAC	AGC TCG Ser 21 GAG CTC	CTG GAC Leu L80 * TGG ACC	* ACC TGG Thr	TGC ACG Cys  * AGC TCG	to the total transfer of the transfer of the transfer of the transfer of trans	* GTC CAG Val	AAA TTT Lys * CAG	GGC CCG Gly CCG GGC	TTC AAG Phe 00 * GAG CTC	* TAT ATA Tyr  * AAC TTG	2160 * CCC GGG Pro>
* ACC TGG Thr AGC TCG	AAG TTC Lys * GAC CTG	AAC TTG Asn 21	CAG GTC Gln 70 * GCC CGG Ala	* GTC CAG Val  * GTG CAC	AGC TCG Ser 21 GAG CTC	CTG GAC Leu L80 * TGG ACC	* ACC TGG Thr GAG CTC Glu	TGC ACG Cys  * AGC TCG	CTG GAC Leu 2190 * AAT TTA Asn	* GTC CAG Val GGG CCC Gly	AAA TTT Lys * CAG	GGC CCG Gly 220 CCG GGC Pro	TTC AAG Phe 00 * GAG CTC Glu	* TAT ATA Tyr  * AAC TTG	2160 * CCC GGG Pro> AAC TTG
* ACC TGG Thr AGC TCG Ser	AAG TTC Lys * GAC CTG	AAC TTG Asn 21 ATC TAG Ile	CAG GTC Gln 70 * GCC CGG Ala	* GTC CAG Val  * GTG CAC	AGC TCG Ser 21 GAG CTC Glu	CTG GAC Leu L80 * TGG ACC	* ACC TGG Thr GAG CTC Glu	TGC ACG Cys * AGC TCG Ser	CTG GAC Leu 2190 * AAT TTA Asn	* GTC CAG Val GGG CCC Gly	AAA TTT Lys * CAG	GGC CCG Gly 220 CCG GGC Pro	TTC AAG Phe  OO * GAG CTC Glu	* TAT ATA Tyr  * AAC TTG	CCC GGG Pro> AAC TTG Asn>
* ACC TGG Thr AGC TCG Ser 2210 *	AAG TTC Lys * GAC CTG Asp	AAC TTG Asn 21 ATC TAG Ile	CAG GTC Gln 70 * GCC CGG Ala	* GTC CAG Val  * GTG CAC Val	AGC TCG Ser 21 GAG CTC Glu	CTG GAC Leu 180 * TGG ACC Trp	* ACC TGG Thr GAG CTC Glu	TGC ACG Cys * AGC TCG Ser	to to the total control of the	* GTC CAG Val  GGG CCC Gly 240 *	AAA TTT Lys * CAG GTC Gln	GGC CCG Gly CCG GGC Pro	TTC AAG Phe OO * GAG CTC Glu 2250 *	* TAT ATA Tyr  * AAC TTG Asn	CCC GGG Pro>  AAC TTG Asn>
* ACC TGG Thr  AGC TCG Ser  2210 * TAC	AAG TTC Lys  * GAC CTG Asp	AAC TTG ASN 21 ATC TAG Ile *	CAG GTC Gln 70 * GCC CGG Ala 2220 *	* GTC CAG Val  * GTG CAC Val	AGC TCG Ser 21 GAG CTC Glu	CTG GAC Leu L80 * TGG ACC Trp 223	* ACC TGG Thr GAG CTC Glu 80 * CTG	TGC ACG Cys * AGC TCG Ser *	to the total transfer of the transfer of the transfer of the transfer of trans	* GTC CAG Val  GGG CCC Gly 240 * GAC	AAA TTT Lys * CAG GTC Gln	GGC CCG GGC Pro	TTC AAG Phe 00 * GAG CTC Glu 2250 * TTC	* TAT ATA Tyr  * AAC TTG Asn	CCC GGG Pro>  AAC TTG Asn>
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG	AAG TTC Lys  * GAC CTG Asp  AAG TTC	AAC TTG ASN 21 ATC TAG Ile ACC TGG	CAG GTC Gln 70 * GCC CGG Ala 2220 * ACG TGC	* GTC CAG Val  * GTG CAC Val  CCT GGA	AGC TCG Ser 21 GAG CTC Glu *	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC	* ACC TGG Thr GAG CTC Glu * CTG GAC	TGC ACG Cys * AGC TCG Ser *	tCC AGG	* GTC CAG Val  GGG CCC Gly 40 * GAC CTG	AAA TTT Lys * CAG GTC GIn	GGC CCG Gly 220 CCG GGC Pro	TTC AAG Phe OO * GAG CTC Glu * TTC AAG	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG	2160  * CCC GGG Pro>  AAC TTG Asn>  * CTC GAG
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG	AAG TTC Lys  * GAC CTG Asp  AAG TTC	AAC TTG ASN 21 ATC TAG Ile ACC TGG	CAG GTC Gln 70 * GCC CGG Ala 2220 * ACG TGC	* GTC CAG Val  * GTG CAC Val  CCT GGA	AGC TCG Ser 21 GAG CTC Glu *	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC	* ACC TGG Thr GAG CTC Glu * CTG GAC	TGC ACG Cys * AGC TCG Ser *	tCC AGG	* GTC CAG Val  GGG CCC Gly 40 * GAC CTG	AAA TTT Lys * CAG GTC GIn	GGC CCG Gly 220 CCG GGC Pro	TTC AAG Phe OO * GAG CTC Glu * TTC AAG	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG	CCC GGG Pro>  AAC TTG Asn>
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG TYr	AAG TTC Lys  * GAC CTG Asp  AAG TTC Lys	AAC TTG ASN 21 ATC TAG Ile ACC TGG	CAG GTC Gln 70 * GCC CGG Ala 2220 * ACG TGC	* GTC CAG Val  * GTG CAC Val  CCT GGA Pro	AGC TCG Ser 21 GAG CTC Glu *	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC Val	* ACC TGG Thr GAG CTC Glu * CTG GAC Leu	TGC ACG Cys * AGC TCG Ser *	tCC AGG	GTC CAG Val GGG CCC Gly A GAC CTG Asp	AAA TTT Lys * CAG GTC Gln GGC CCG	GGC CCG Gly 220 CCG GGC Pro	TTC AAG Phe OO * GAG CTC Glu * TTC AAG Phe	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG Phe	2160  * CCC GGG Pro>  AAC TTG Asn>  * CTC GAG
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG	AAG TTC Lys  * GAC CTG Asp  AAG TTC Lys	AAC TTG ASN 21 ATC TAG Ile * ACC TGG Thr	CAG GTC Gln 70 * GCC CGG Ala 2220 * ACG TGC	* GTC CAG Val  * GTG CAC Val  CCT GGA Pro	AGC TCG Ser 21 GAG CTC Glu *	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC Val	* ACC TGG Thr GAG CTC Glu CTG GAC Leu	TGC ACG Cys * AGC TCG Ser * GAC CTG Asp	CTG GAC Leu 2190 * AAT TTA ASD TCC AGG Ser	* GTC CAG Val  GGG CCC Gly 40 * GAC CTG	AAA TTT Lys CAG GTC GIn GGC CCG Gly	GGC CCG Gly 220 CCG GGC Pro * TCC AGG Ser	TTC AAG Phe OO * GAG CTC Glu * TTC AAG Phe	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG Phe	2160  * CCC GGG Pro>  AAC TTG Asn>  * CTC GAG
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG Tyr	AAG TTC Lys  GAC CTG Asp  AAG TTC Lys	AAC TTG ASN 21 ATC TAG Ile ACC TGG Thr	CAG GTC Gln  70 * GCC CGG Ala  2220 * ACG TGC Thr	* GTC CAG Val  * GTG CAC Val  CCT GGA Pro  *	AGC TCG Ser 21 GAG CTC Glu * CCC GGG Pro	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC Val	* ACC TGG Thr GAG CTC Glu CTG GAC Leu 2280	TGC ACG Cys * AGC TCG Ser * GAC CTG Asp	to the total control of the to	GTC CAG Val GGG CCC Gly 40 * GAC CTG Asp	AAA TTT Lys CAG GTC GIn GGC CCG Gly	GGC CCG Gly 220 CCG GGC Pro TCC AGG Ser	TTC AAG Phe CTC Glu * TTC AAG Phe 23	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG Phe	CCC GGG Pro>  AAC TTG Asn>  * CTC GAG Leu>
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG Tyr  220	AAG TTC Lys  * GAC CTG Asp  AAG TTC Lys  60 * AGC	AAC TTG ASN 21 ATC TAG Ile ACC TGG Thr	CAG GTC GIn  70 * GCC CGG Ala  2220 * ACG TGC Thr	* GTC CAG Val  * GTG CAC Val  CCT GGA Pro  * ACC	AGC TCG Ser 21 GAG CTC Glu * CCC GGG Pro	CTG GAC Leu L80 * TGG ACC Trp 223 GTG CAC Val * GAC	* ACC TGG Thr GAG CTC Glu CTG GAC Leu 2280 * AAG	TGC ACG Cys * AGC TCG Ser * GAC CTG Asp	CTG GAC Leu 2190 * AAT TTA ASN 22 TCC AGG Ser *	GTC CAG Val GGG CCC Gly GAC CTG Asp 229	AAA TTT Lys CAG GTC GIn GGC CCG Gly	GGC CCG Gly 220 CCG GGC Pro TCC AGG Ser	TTC AAG Phe CTC Glu * TTC AAG Phe CGGG	* TAT ATA Tyr  * AAC TTG ASN  TTC AAG Phe  * AAC	CCC GGG Pro>  AAC TTG Asn>  * CTC GAG Leu>
* ACC TGG Thr  AGC TCG Ser  2210 * TAC ATG Tyr  220 TAT ATA	AAG TTC Lys  * GAC CTG Asp  AAG TTC Lys  AGC TCG	AAC TTG ASN 21' ATC TAG Ile * ACC TGG Thr AAG TTC	CAG GTC Gln 70 * GCC CGG Ala 2220 * ACG TGC Thr 22 CTC GAG	* GTC CAG Val  * GTG CAC Val  CCT GGA Pro  * ACC TGG	AGC TCG Ser 21 GAG CTC Glu * CCC GGG Pro	CTG GAC Leu 180 * TGG ACC Trp 223 GTG CAC Val * GAC CTG	* ACC TGG Thr GAG CTC Glu CTG GAC Leu 2280 * AAG TTC	TGC ACG Cys  * AGC TCG Ser  * GAC CTG Asp	10 * CTG GAC Leu 2190 * AAT TTA Asn 22 TCC AGG Ser * AGG TCC	GTC CAG Val GGG CCC Gly ASP 229 TGG ACC	AAA TTT Lys  * CAG GTC GIn  GGC CCG Gly  0 * CAG GTC	GGC CCG Gly 220 CCG GGC Pro TCC AGG Ser CAG GTC	TTC AAG Phe  CTC Glu  TTC AAG Phe  CGGG CCC	* TAT ATA Tyr  * AAC TTG Asn  TTC AAG Phe  AAC TTG	CCC GGG Pro>  AAC TTG Asn>  * CTC GAG Leu>